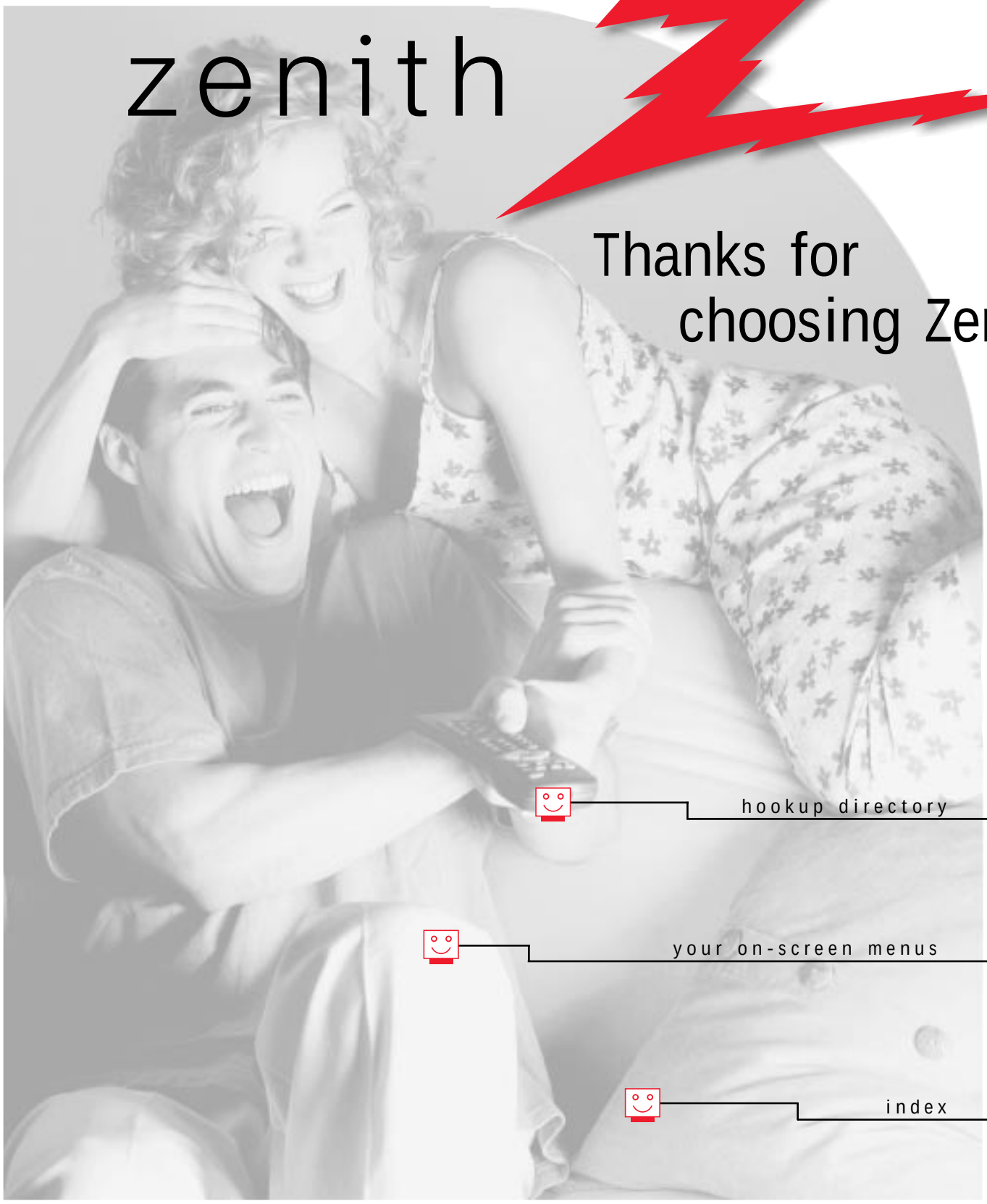
machine numbers | A25B33 | A27B33

zenith



Thanks for choosing Zenith!

hookup directory page 3

your on-screen menus page 16

index page 47

operating guide / warranty

RECORD YOUR MODEL NUMBER
(Now, while you can see it)

The model and serial number of your new TV are located on the back of the TV cabinet. For your future convenience, we suggest that your record these numbers here:

MODEL NO._____

SERIAL NO._____

WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

POWER CORD POLARIZATION:

CAUTION: To Prevent Electric Shock, Match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

NOTE TO CABLE/TV INSTALLER:

This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

REGULATORY INFORMATION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION:

Do not attempt to modify this product in any way without written authorization from Zenith Electronics Corporation. Unauthorized modification could void the user's authority to operate this product.

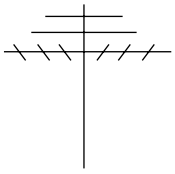
Hook-Up Directory

This page will direct you to which page to go to for proper hook-up of your Entertainment Machine.

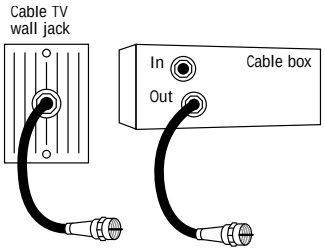
IMPORTANT!!

Use this page to decide where you need to begin your setup. First, find the line below that best describes what you want to do, then go to that page number.
Note: Design and specifications are subject to change without prior notification.

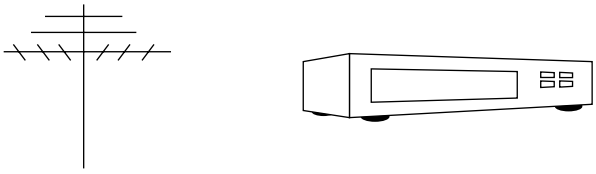
Antenna only If you are using an antenna and no other equipment, go to . . . . . page 4



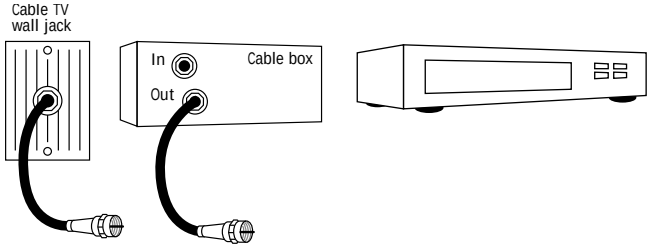
Cable only If you have cable and no other equipment, go to . . . . . page 5



Antenna with VCR If you are using an antenna and have a VCR, go to . . . . . page 6



Cable and VCR If you have cable and a VCR, go to . . . . . page 7



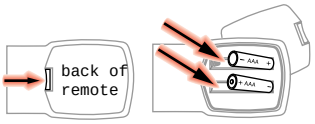
Other If you have a Super VHS VCR, DVD Player, or Audio equipment, go to . . . . . .pages 8-9

Connect an antenna to your Entertainment Machine.

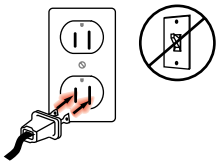
Hook Up Your Antenna to the TV

1 Hook up your Entertainment Machine, see diagrams at right.

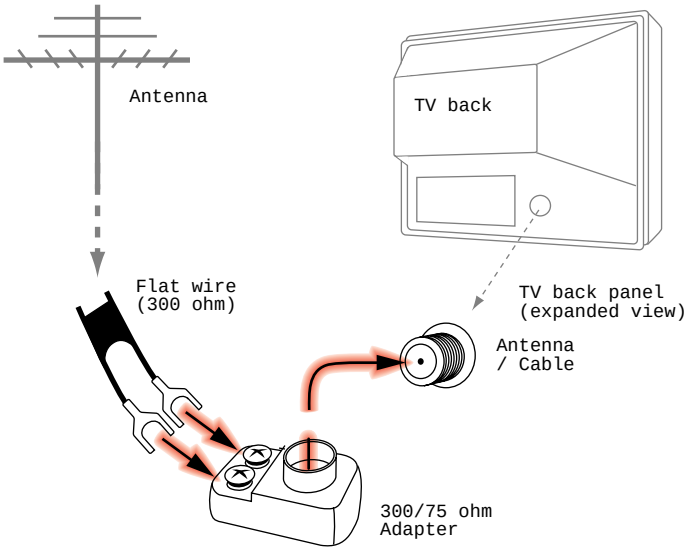
2 Remove the back of the remote and put in two AAA batteries.



3 Plug in your TV. Do not plug it into a switched outlet.



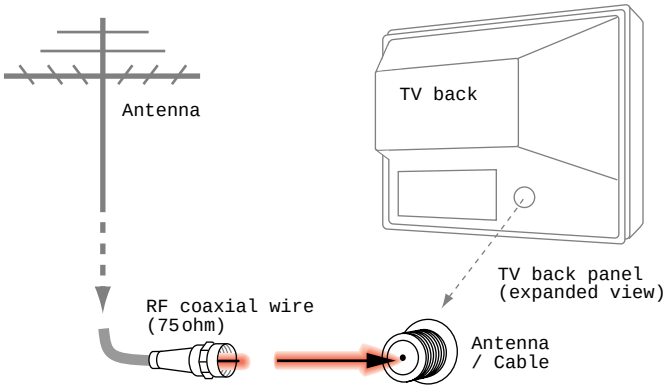
4 Go to page 10 to Auto Program your Entertainment Machine.



If you have a 75 ohm RF cable, then you don't need any adapters!

Remember, when screwing RF cables onto jacks, clockwise tightens, and counterclockwise loosens.

A 300 to 75 ohm adapter is not included with your Zenith Entertainment Machine.



Mini glossary

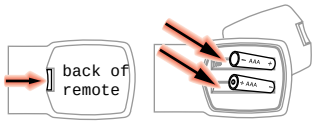
75 OHM RF CABLE	The wire that comes from an off-air antenna or cable service provider. Each end looks like a hex shaped nut with a wire sticking through the middle, and it screws onto the threaded jack on the back of your TV.
300 TO 75 OHM ADAPTER	A small device that connects a two-wire 300 ohm antenna to a 75 ohm RF jack. They are usually about an inch long with two screws on one end and a round opening with a wire sticking out on the other end.

Hook Up Your Cable (CATV) to the TV

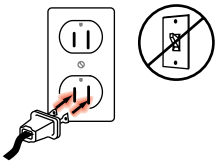
Connect cable to your Entertainment Machine.

1 Hook up your Entertainment Machine, see diagrams at right.

2 Remove the back of the remote and put in two AAA batteries.



3 Plug in your TV. Do not plug it into a switched outlet.



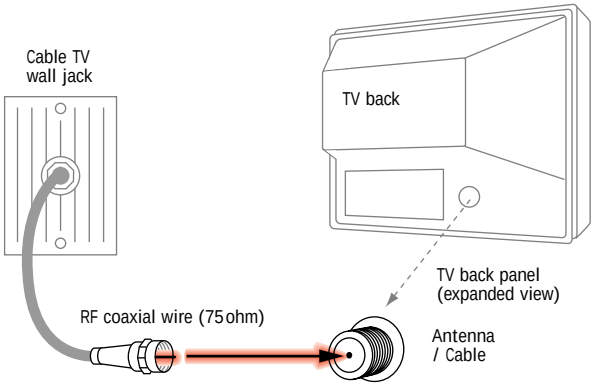
4 Go to page 10 to Auto Program your Entertainment Machine.

If you're using a cable box, leave your TV on channel 3 or 4 and use your cable box to change channels.

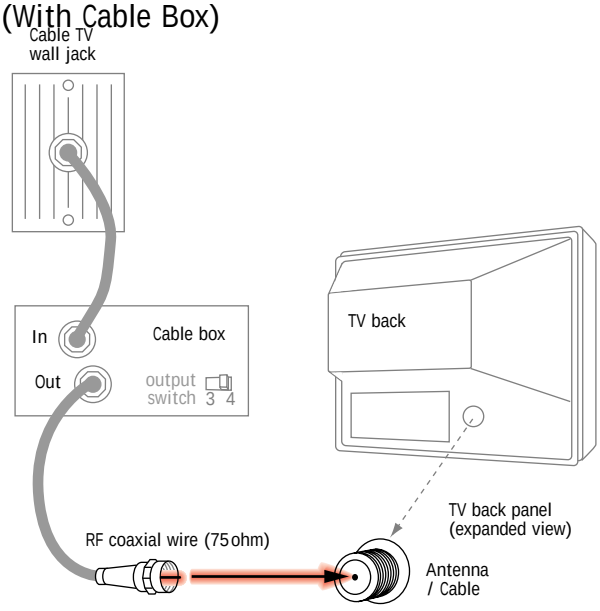
Remember, when screwing RF cables onto jacks, clockwise tightens, and counterclockwise loosens.

If you're using a cable box, Auto-Program (page 10) might only find the channel your cable service is on (usually channel 3 or 4). Don't worry, that's all you need!

(Without Cable Box)



(With Cable Box)



Mini glossary

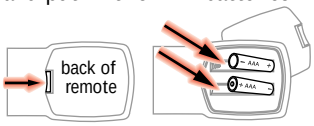
CABLE SERVICE The wire that supplies all your cable TV (CATV) stations.

Connect your off-air antenna and VCR to your Entertainment Machine.

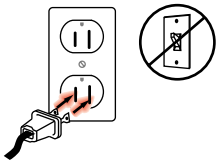
Hook Up Antenna and VCR to the TV

1 Hook up your Entertainment Machine, see diagrams at right.

2 Remove the back of the remote and put in two AAA batteries.



3 Plug in your TV. Do not plug it into a switched outlet.



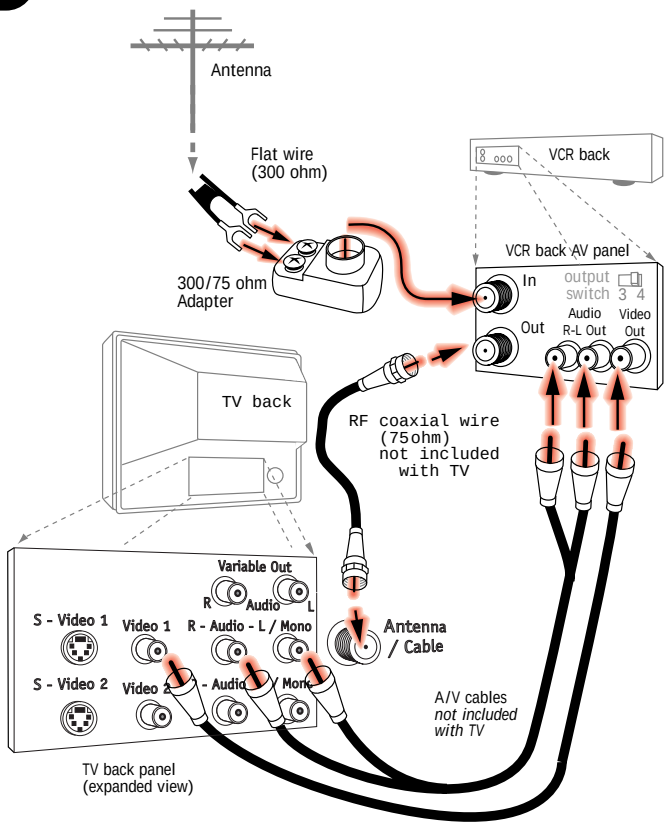
4 Go to page 10 to Auto Program your Entertainment Machine.

Remember, when screwing RF cables onto jacks, clockwise tightens, and counterclockwise loosens.

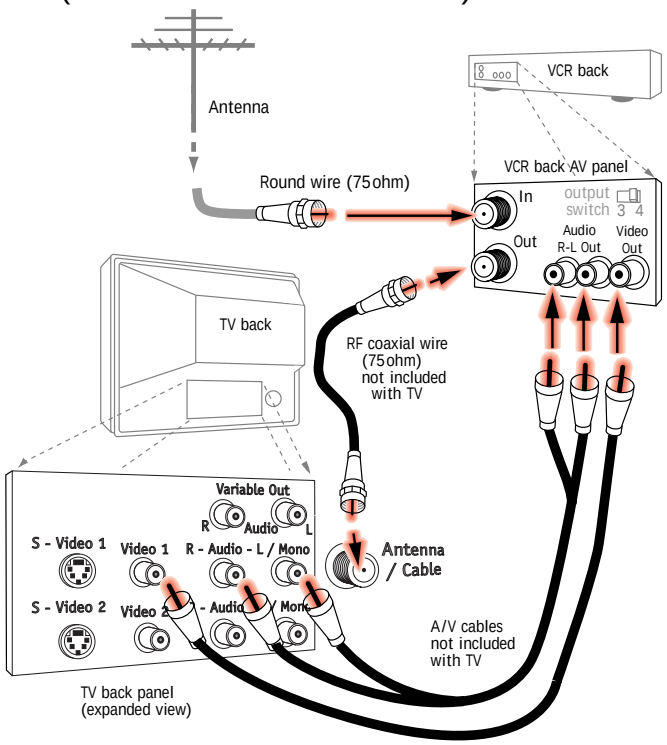
Use video sources for better picture and sound.

Without A/V cables, VCRs will not play videocassettes in stereo sound.

(VCR with Flat Wire Antenna Adapter)



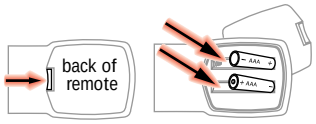
(VCR with Round Antenna Wire)



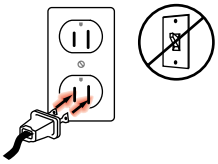
Hook Up Your Cable (CATV) and VCR

1 Hook up your Entertainment Machine, see diagrams at right.

2 Remove the back of the remote and put in two AAA batteries.



3 Plug in your TV. Do not plug it into a switched outlet.



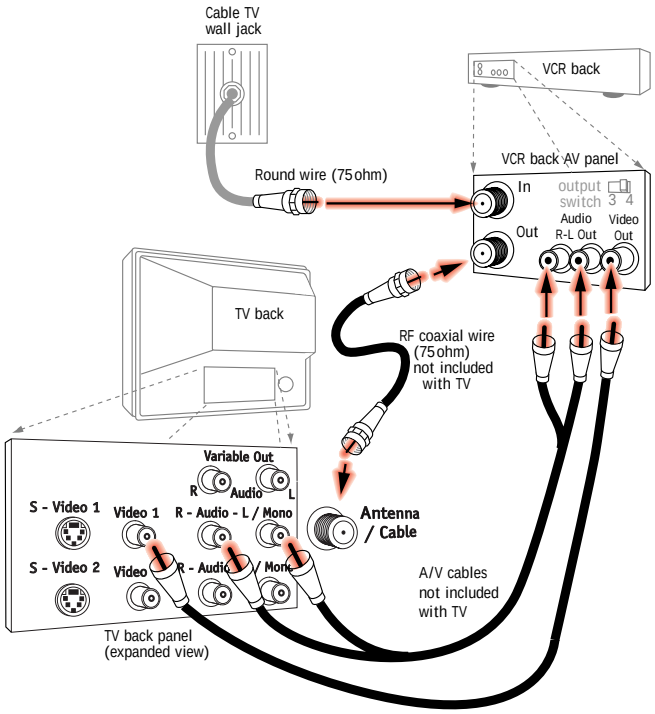
4 Go to page 10 to Auto Program your Entertainment Machine.

Leave your VCR and your television tuned to channel three and use the cable box to change channels.

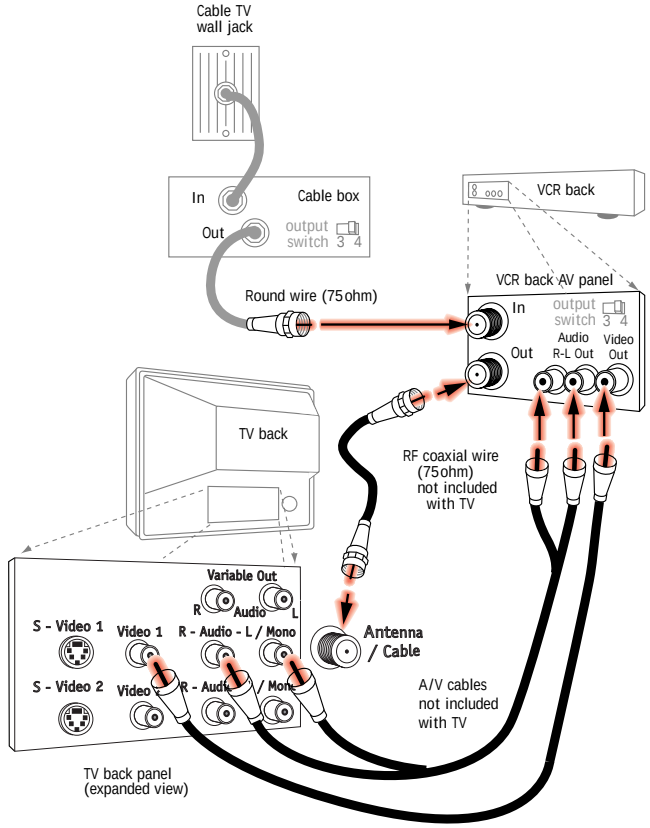
Remember, when screwing in RF cables onto jacks, clockwise tightens, and counterclockwise loosens.

No A/V cables are included with your Zenith Entertainment Machine. Without A/V cables, most VCRs will not play videocassettes in stereo sound.

(Without Cable Box)



(With Cable Box)



Connect your VCR and Cable to your Entertainment Machine.

Super VHS VCR/DVD Player

Connecting a S-VHS VCR or DVD Player to your Entertainment Machine.

Super VHS VCR

1 Locate the Ant In jack on the back of your S-VHS VCR. Connect the cable line coming from your wall directly to this jack.

2 Now locate the Out to TV jack. Connect a cable from the Out to TV jack to the Antenna/Cable jack on the back of your TV.

3 Find the audio and S-Video jacks on the back of your DVD or S-VHS player, and connect them following the instructions provided with your equipment.

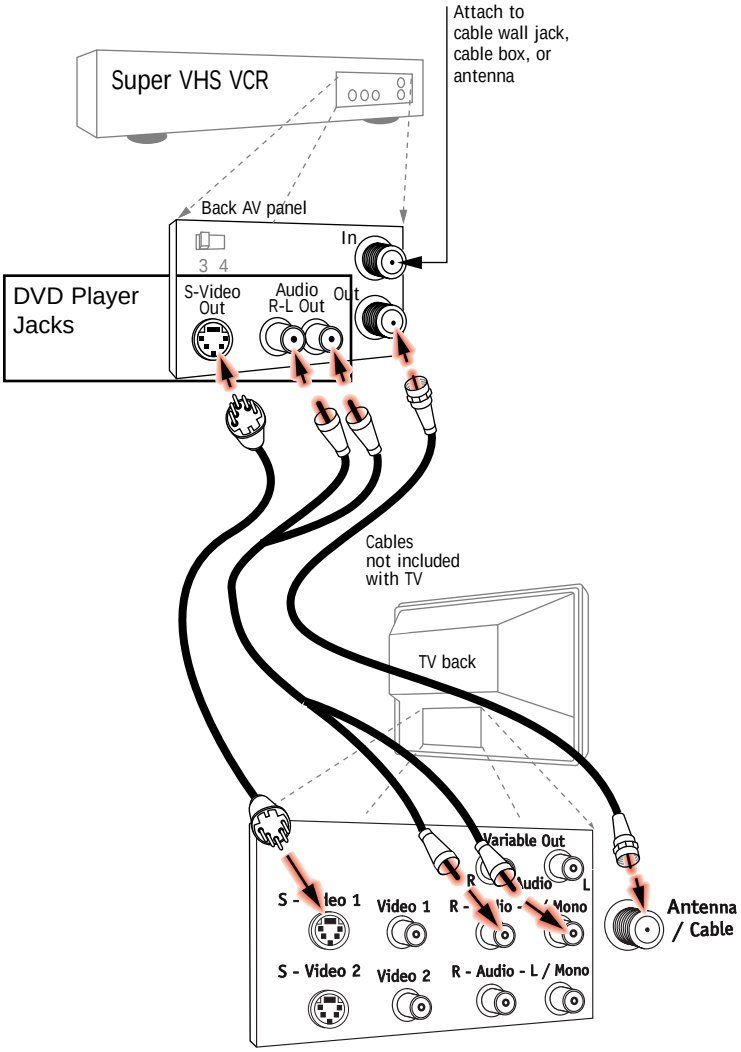
DVD* Player

Simply connect the S-Video/Audio out on the DVD to the S-VHS 1, R-L Audio or S-VHS 2, R-L Audio In on the TV.

Use Video sources for better picture and sound.

To use with PIP: go to the Source Menu (page 30) and choose the jack you've connected your S-VHS or DVD player (S-VHS 1,-2) as the Main or PIP source.

* Digital Video Disk Player



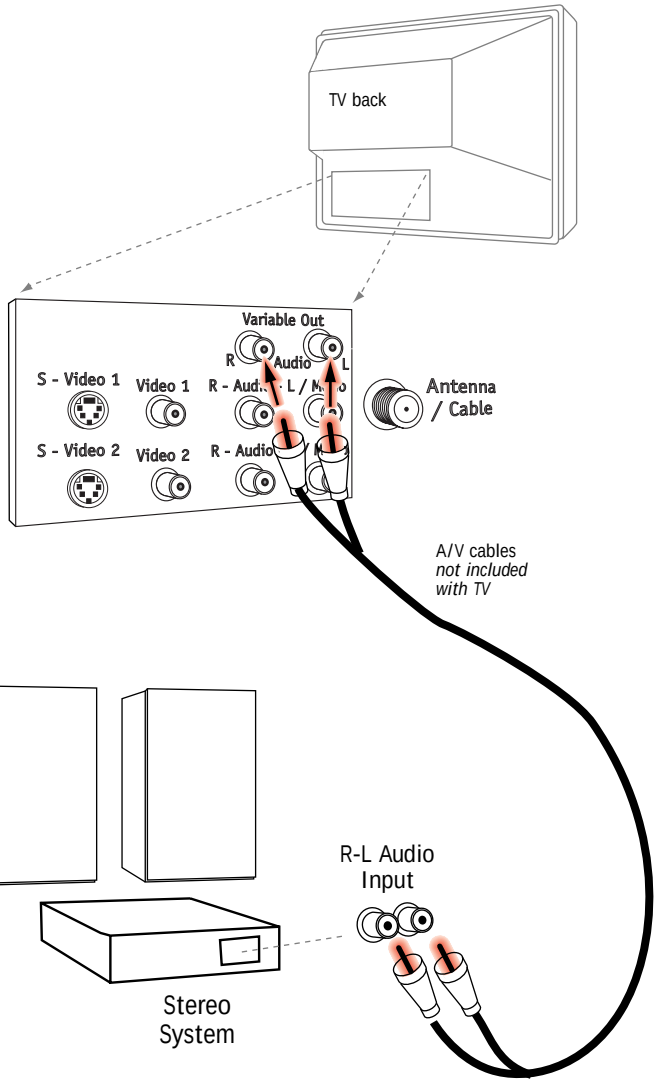
3374-0

Audio Hook-ups

Before you begin plugging in your stereo system, it's a good idea to put it in its approximate place first. That way you know how much wire you have or will need.

Get the best sound possible from your Entertainment Machine.

1 Locate the jacks marked Variable Out. These are for the stereo system. Connect the stereo system's cables, according to their color (red is the right channel, white the left) to these jacks.



These wires should be included with your speakers

Auto Program

Use Auto Program to automatically find and store all of the stations available in your area in the TV's memory.

1 With the remote control in hand, press the POWER key to turn on your Entertainment Machine.

2 Press the MENU key so the Setup menu appears.

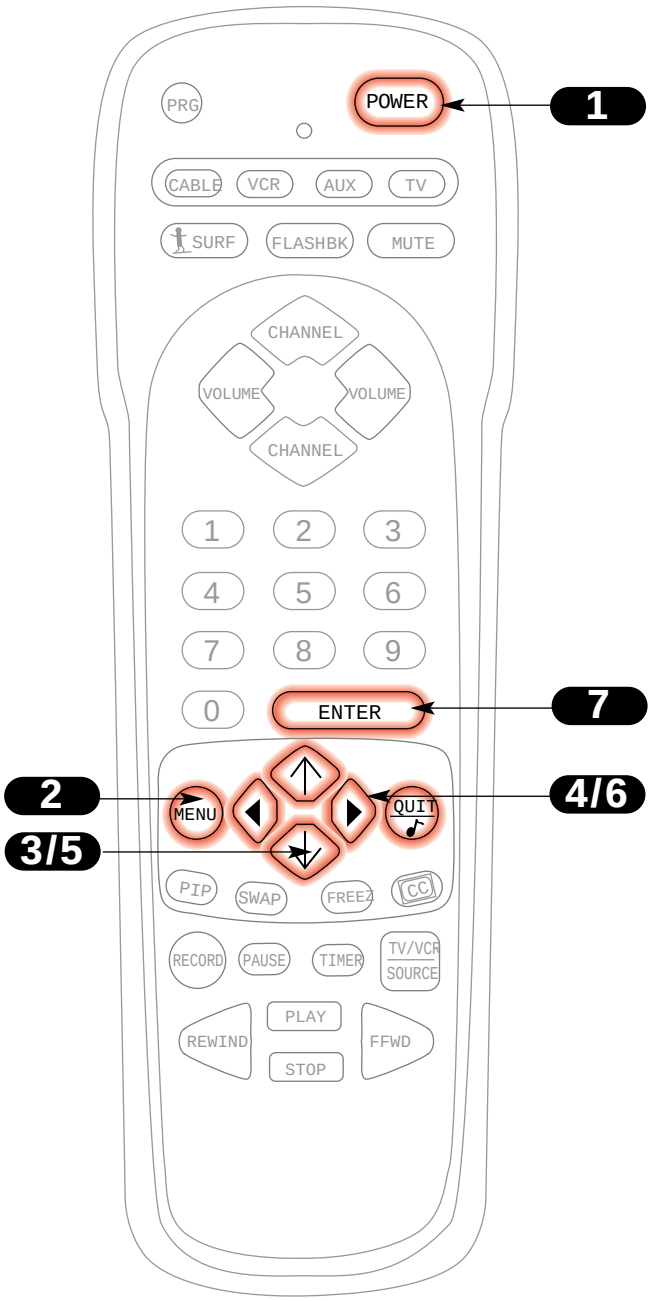
3 Using the UP/DOWN arrows on the remote control, select Auto Program on your screen.

4 Press a RIGHT or LEFT arrow to reach the Auto Program screen.

5 Using the UP/DOWN arrows, choose either Cable TV or Off-Air Antenna on your screen.
Note: The option that is blinking and appears in white is selected.

6 Press a RIGHT or LEFT arrow to begin Auto Program.

7 Press ENTER or QUIT to return to TV viewing.



Note: Auto Program finds channels being received by the TV Tuner. See information on page 14 for using the Cable Box or VCR Tuners.

To customize your channel selection, see page 18.

Mini glossary

AUTO PROGRAM Auto Program is how your Entertainment Machine finds all the channels available in your area and stores them in memory.

TV Mode Remote Key Functions

A quick list of all the keys on your remote and what they do.

PRG (PROGRAM)
Programs your remote to operate other products. See page 35.

FLASHBK (FLASHBACK)
Return to the last channel viewed.

SURF
Activates custom channel select mode on your Entertainment Machine. When Surf mode is active, CHANNEL UP/DOWN keys "Surf" through the channels you've selected.

CHANNEL (UP/DOWN)
Flip through available channels.

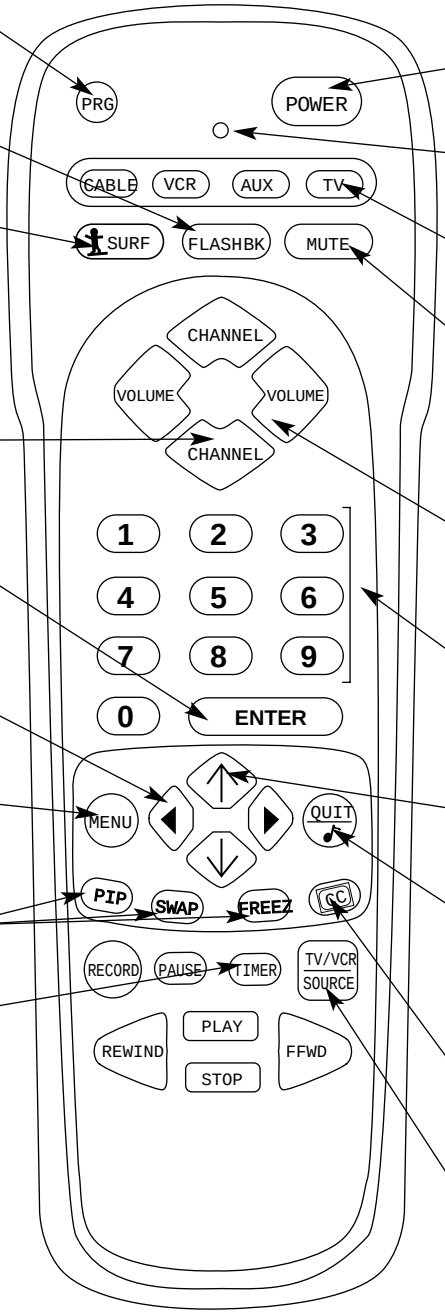
ENTER
Shows the Channel/Time display. Press after channel numbers for instant selection.

LEFT/RIGHT ARROWS
The Left/Right arrows *adjust* options.

MENU
Displays on-screen menus for TV mode.

PIP FEATURES
See PIP operation section.

TIMER
Displays the Sleep Timer Menu. See "Timer Setup" on page 24 for more information.



POWER
Turns TV On or Off.

LED INDICATOR LIGHT
Lights when keys are pressed.

CABLE/VCR/AUX/TV
Selects remote operating mode.

MUTE
Turns sound Off and On while the picture remains. Press once to quiet sound, press again to mute, press again to restore sound.

VOLUME LEFT/RIGHT
Adjusts the sound levels on your Entertainment Machine.

NUMBER KEY PAD
Selects channels directly and enters numeric values for some options.

UP/DOWN ARROWS
The Up/Down arrows *select* options.

QUIT
Remove on-screen display from view. If no display is on, switches SEQ sound feature On and Off for some TVs.

CC(CLOSED CAPTIONING)
Displays the closed caption menu.

TV/VCR-SOURCE
Switches between watching TV through your antenna/cable, or through your VCR.

Keys dedicated to VCR functions will still operate your VCR while the remote is in TV mode.

remote control part number
MBR3457
(124-212-36/37)

Front Panel Diagram

How to use your front control panel to operate the menus.

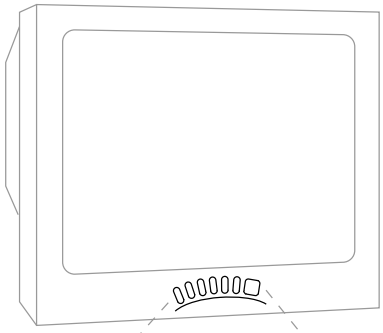
Note: For model A27B33, when using the on-screen menus, the buttons on the front panel correspond to the remote control buttons as follows:

VOLUME = Adjust Left/Right
CHANNEL = Select Up/Down

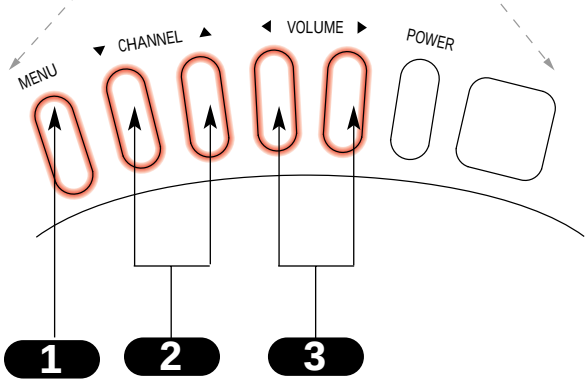
1 To access the Setup menu, press the MENU button once; to get the other menus, keep pressing the MENU button.

2 Choose the function you wish to change using the SELECT button.

3 The ADJUST buttons act as an "adjustment" (Left/Right) function.

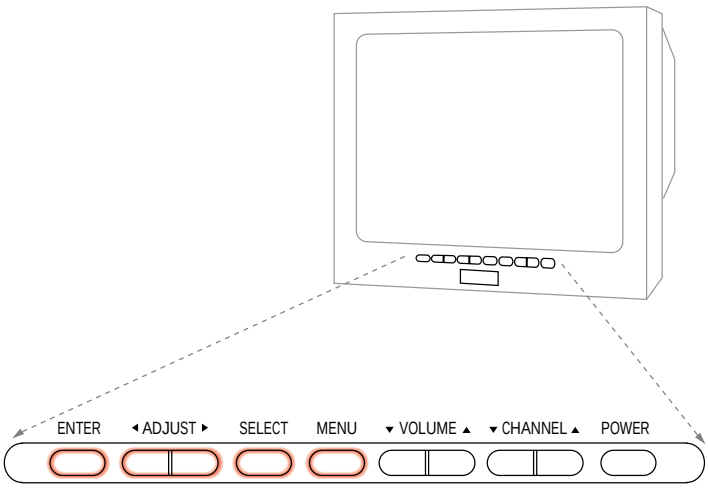


Typical 6-Button TV Front Panel



Menus disappear after five seconds. To get them back, push the MENU button again.

If you've lost your remote, you can get a new replacement by calling 1-800-255-6790 to purchase a replacement.



Typical 10-Button TV Front Panel

Basic Television Operation

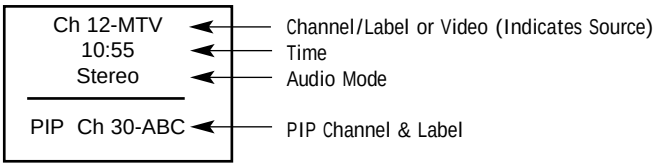
Introducing you to the basics of your Entertainment Machine

Source

The source button (TV/VCR/Source) on the remote switches between Video input and Cable/Antenna input. The Time/Channel display will read "Video" in place of a channel number if A/V inputs are selected as the picture source.

Cable/Antenna Input: This setting allows you to change cable or antenna channels and to view videocassettes on channel 3 (or 4) in mono sound.

Video Input: This setting allows stereo playback of videocassettes. The television cannot change channels in the Video mode, but the VCR can.

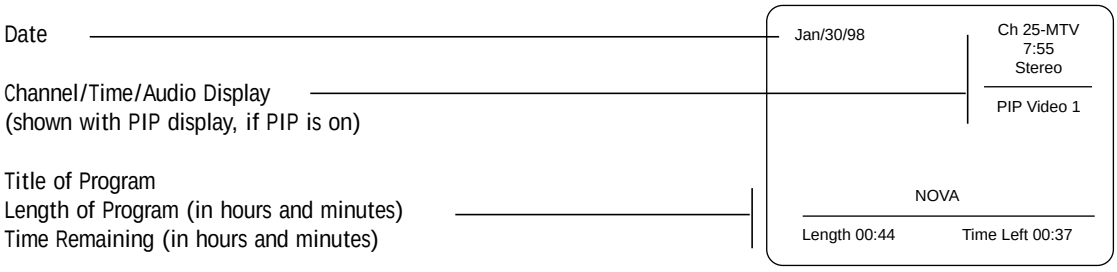


To view the current input source, press ENTER on your remote. The Time/Channel display should appear in the upper right hand corner of the screen. If the display reads 'Video,' then the source is an A/V input. If the display reads a channel number, then the source is your Cable or Antenna.

XDS Data Feature

XDS = Extended Data Service
Some broadcasters are including on the signal they provide additional information (data) about the program. This additional information appears on your TV screen (see example) when you press ENTER; if the channel has XDS.

Example of an XDS Data Display



Showing XDS Data
Select a channel. Press ENTER to display XDS data; if available.

XDS Channel Labels
XDS can provide a channel label automatically. For the programs to display an XDS channel label, select the dashes (- - - -) for that channel from the Channel ID option in the Setup Menu.

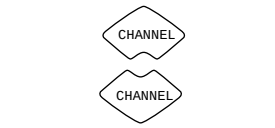
At this printing, XDS data is only being provided by some public broadcasting stations; and as a result, it is only available on some channels.

You must set the Clock in the Setup Menu before the time will appear on the Channel/Time Display or on the XDS display.

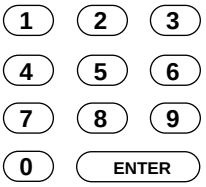
Introducing you to the basics of your Entertainment Machine

Basic Television Operation (cont'd)

Channel Changing



CHANNEL UP/DOWN arrows: Use these arrows to change the channels. Autoprogram will have found all channels available to you.



NUMBER Key Pad: To skip to any channel, enter the number of the channel using the NUMBER key pad, then press ENTER.

FLASHBACK: To instantly return to the last channel viewed, press FLASHBACK.

SURF: Switches between the primary channel selection and your customized surf channel selections. The surf mode icon will appear in the lower right corner of the screen when you change channels. Press SURF to turn surf On, press again to turn surf mode Off.

This is while the source is set to Antenna/Cable. For any other source, such as a VCR, the Main Picture channel changing will be controlled by that equipment.

Audio

Volume Right/Left: To adjust the volume level, use the volume Right/Left arrows. To silence your TV instantly, press MUTE once to soften the volume, press again to turn sound off. To get the sound back, press MUTE again.

Basic Television Operation (cont'd)

Help on combining your Entertainment Machine with more equipment.

There are a number of ways you can choose to integrate your Entertainment Machine with the rest of your equipment. Channels can be changed using the television, the VCR, or the cable box, with advantages to each.

USING THE TELEVISION AS THE TUNER preserves all your channel labels (not available on some models). It also reduces the number of keys on the remote control you need to worry about. (One device, one remote to learn.)

USING THE VCR AS THE TUNER has the advantage of simplifying the recording process. If the VCR is tuned to channel seven, then the VCR will record channel seven.

USING THE CABLE BOX (if you have one) to change the stations sometimes has an advantage, too, especially if your cable provider requires you to use their cable box to descramble their stations.

Setting Up a Tuner

1. Based on the advantages listed above, decide what device you want to use as the tuner.
2. Connect the antenna or cable source to the input of your tuner. (If you chose your television as the tuner, then you're done. Go watch your Entertainment Machine.)
3. Connect the output of your tuner to the input of the next device.
4. If you used A/V cables for step 3, set the "next device" to Video input. If you used an RF coaxial cable in step 3, then tune the "next device" to match the output channel of your tuner (usually channel 3 or 4).
5. Repeat steps 3 and 4 until you reach your Entertainment Machine. Then enjoy!

Mini glossary

TUNER	The television, VCR, or cable box that you choose to change channels with.
A/V CABLES	Audio/Video cables. Three cables bunched together—right audio (red), left audio (white), and video (yellow).
A/V DEVICE	Any device that produces video or sound (VCR, DVD, cable box, or television).

Descriptions of all the menus on your Entertainment Machine.

On-Screen Menus

Using the Menu button on your remote you can access all the menus below.

Menu Name		Go to page
SETUP MENU	Adjusts the basic characteristics of your Entertainment Machine.	
Auto Program	Automatically finds and stores active channels to flip through using Channel Up/Down.	10
Add/Del/Surf	Manually picks and chooses which active channels will appear when flipping through using Channel Up/Down	18
Clock Set	Sets the time.	19
Captions	Turns closed captioning on, off, or set it to come on automatically when the television is muted.	20
Caption/Text	Chooses the captioning or text method for your Entertainment Machine.	21
Language	Picks the language you want your on-screen menus to appear in.	22
Background	Turns the background for on-screen menus transparent or opaque.	23
SPECIAL FEATURES	Goes beyond basics and customize your Entertainment Machine's functions.	
Timer Setup	Programs a time for your Entertainment Machine to turn itself on or off, or to turn itself off after a certain amount of time.	24
Channel Labels	Labels your channels with their network names (ABC, CBS, HBO, etc.).	25
Parental Control	Allows parents to block any channel or A/V source for up to 99 hours, with the use of a password.	26
Auto Demo	Demonstrates the on-screen menus that control TV setup and operational features.	27

Continued on next page.

Mini glossary

ADD	The add function adds channels to the list that will be scrolled through when using your remote.
DELETE	The delete function removes channels from the list that will be scrolled through when using your remote.
SURF	The surf function creates a special list of your favorite channels. You can access this group of channels by pushing the surf button on the remote.

On-Screen Menus Overview, cont'd

Descriptions of all the menus on your Entertainment Machine.

Using the Menu button on your remote you can access all the menus below.

Menu Name		Go to page
AUDIO MENU	Customizes the sound to suit your room and your taste. Your options are: Bass, Treble, Balance, Audio Mode, Front Surround, SoundRite, Speakers.	28
VIDEO MENU	Adjusts your picture for any viewing situation. Your options are: Contrast, Brightness, Color, Tint, Sharpness, Color Temp, Picture Pref.	29
PIP MENU	Controls the size and appearance of the PIP inset. Your options are: Color, Tint, Size.	30
SOURCE MENU	Chooses from the available sources for both the main picture and PIP.	31
Channel/Time/ Audio Display PIP/Channel	Shows the current time, channel, video and audio source, and the Surf status. If present indicates PIP is on.	13
Volume Display	Shows the current sound level.	14
XDS Display	If available on currently selected channel, gives program name, length of program and time left in program in hours and minutes. Also shows Channel/Time/Audio display. If the clock has been set, will display the time also.	13

Customize your channel selection.

Setting Add/Del/Surf

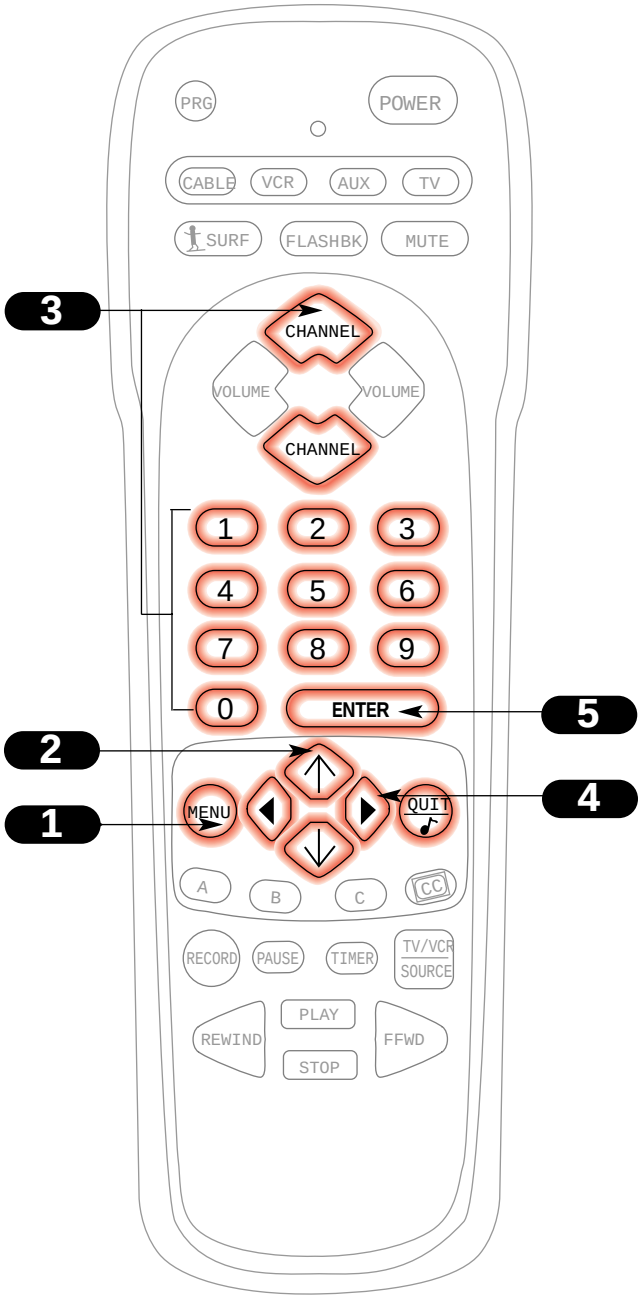
1 Press the MENU key on the remote so the Setup menu appears.

2 Select Add/Delete/Surf menu using the UP/DOWN arrows.

3 Using either the NUMBER key pad or the CHANNEL UP/DOWN arrows on the remote, select a channel. (If adding a deleted channel, you will need to use the number pad.)

4 Using the RIGHT/LEFT arrows, pick whether that channel is Added, Deleted, or a Surf channel.

5 To continue, select another channel and repeat step 4. If you are finished, press ENTER or QUIT to return to TV viewing.



If you delete a channel, it isn't gone for good. Just select it using the NUMBER key pad on the remote, or add it later.

Press SURF, with Surf active, you can use channel up/down to scroll the Surf channel list. Press SURF again to return to normal channel scan.

Mini glossary

ADD	This function lets you add new channels to the list that you'll scroll through when using your remote.
DELETE	This function lets you remove channels that you don't watch from the list you'll scroll through.
SURF	This function lets you add your favorite channels to the Surf list.

Clock Set

Set the clock on your Entertainment Machine.

1 Press the MENU key on the remote control so the Setup Menu appears.

2 Using the UP/DOWN arrows on the remote control, select Clock Set on your screen.

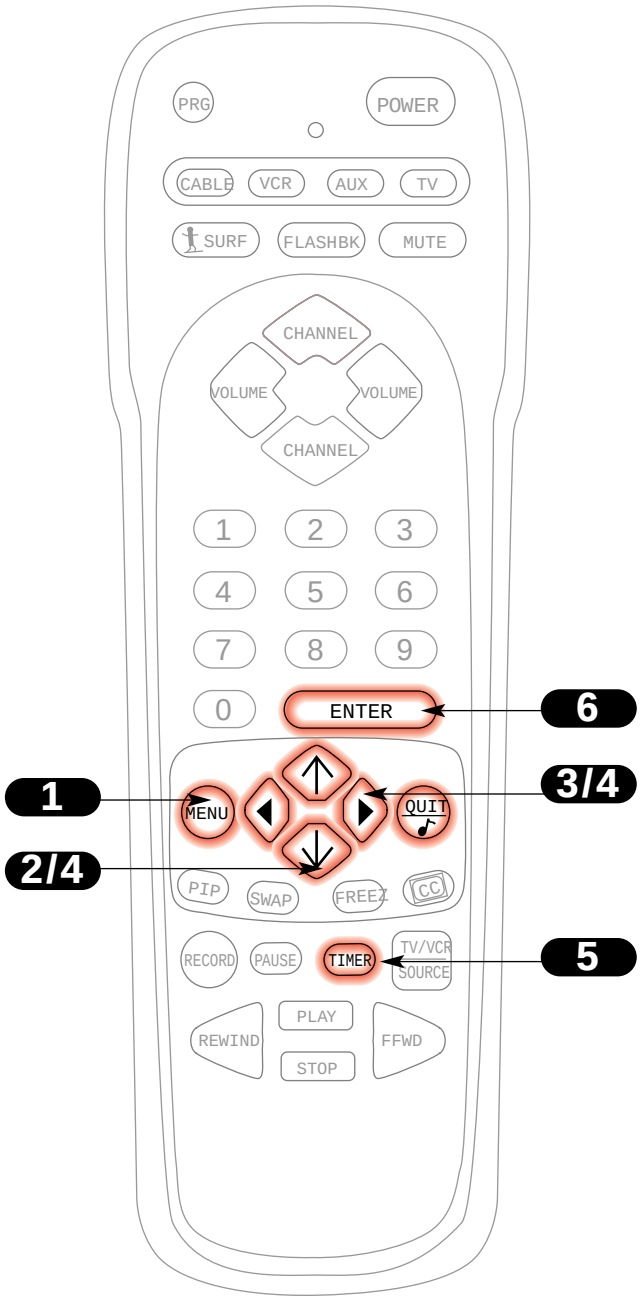
3 Press a RIGHT or LEFT arrow to access the Clock Menu.

4 Select Date Set, use a RIGHT or LEFT arrow to set the date, press ENTER.

Select Clock Set, use a RIGHT or LEFT arrow to set the time, press ENTER.

5 Use the TIMER button to select AM or PM.

6 Press ENTER or QUIT to return to TV viewing.



You can use the NUMBER key pad to simply type in the time and the date (AM or PM is still selected with the TIMER key).

If you wait too long to enter the time, the clock Set menu dissappears.

Captions

Turn on closed captioning or Captions When Muted.

1 Press the MENU key on the remote control so the Setup menu appears.

2 Using the UP/DOWN arrows on the remote control, select Captions.

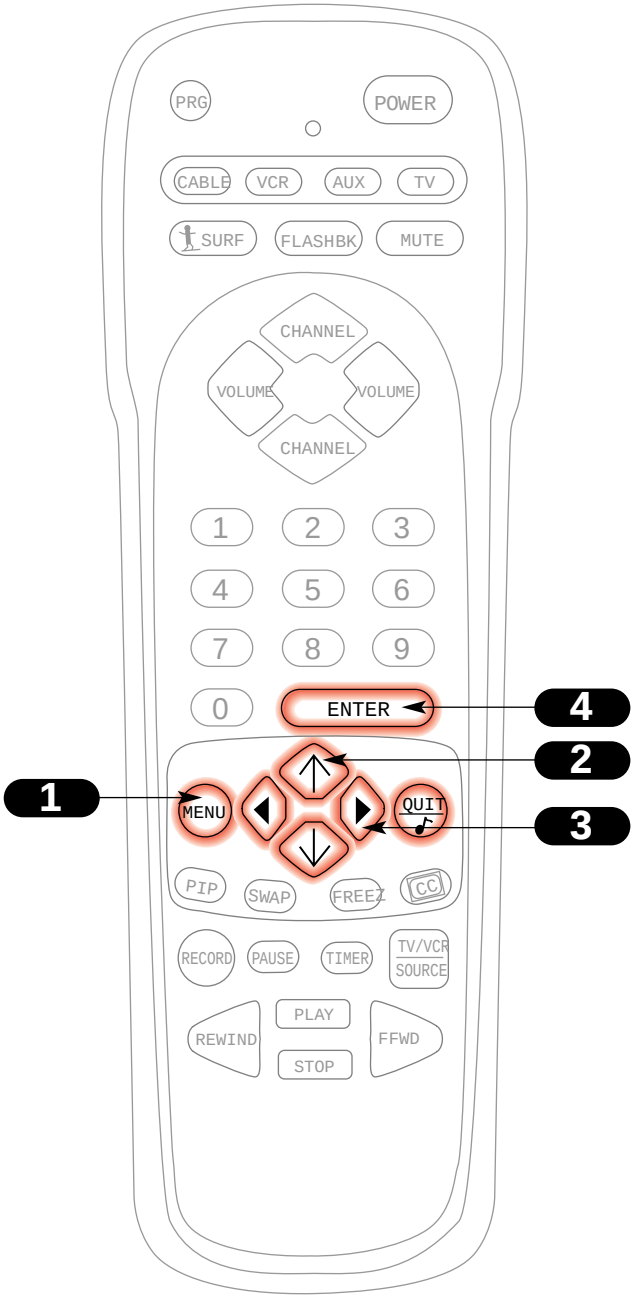
3 Press a RIGHT/LEFT arrow to choose any of the following options: On, Off, or Captions When Muted.

4 Press ENTER or QUIT to return to TV viewing.

Press "CC" to select On, Off, or Captions When Muted.

Captions come in handy when the television is on mute.

Not all programming has closed captioning or text available.



Caption/Text

Caption/Text is a feature which allows your Entertainment Machine to receive various closed caption and text options provided by your broadcaster. Availability and fuctionality of Caption/Text feature is determined only by your broadcaster and may not be available in our area.

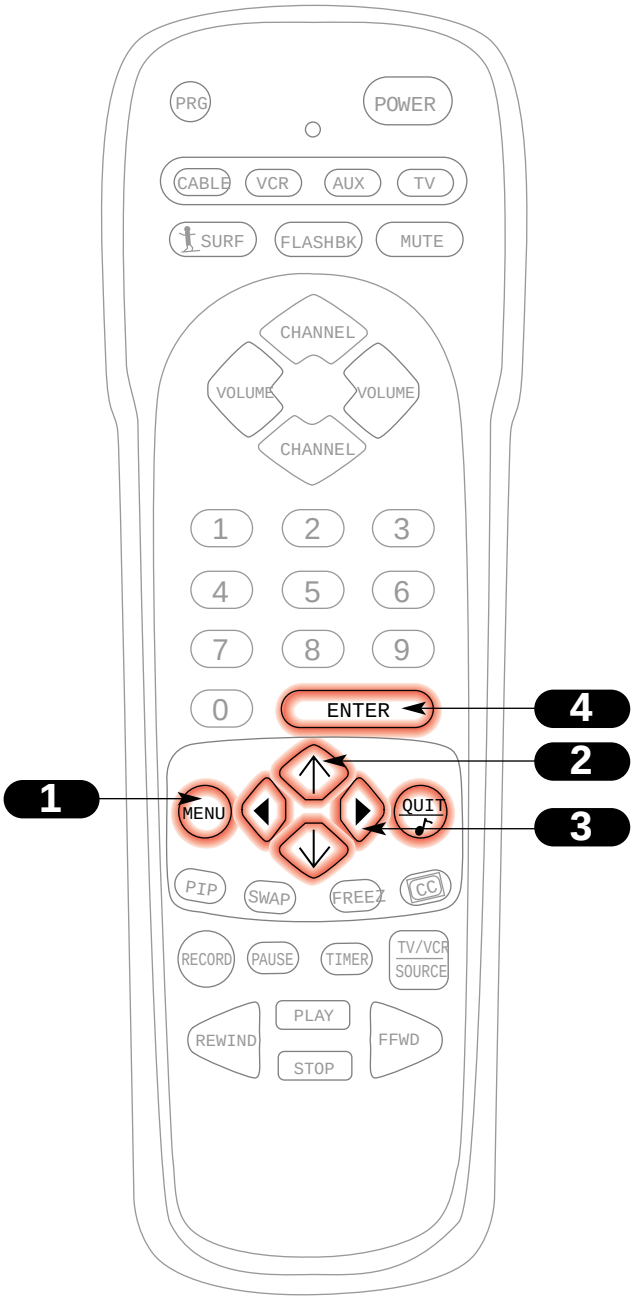
Turn on closed captioning or text that appears at the bottom of your screen.

1 Press the MENU key on the remote control so the Setup menu appears.

2 Using the UP/DOWN arrows on the remote control. Select Caption/Text on your screen.

3 Press a RIGHT/LEFT arrow to choose any of the following options: Caption 1, Caption 2, Caption 3, Caption 4, Text 1, Text 2, Text 3, or Text 4.

4 Press ENTER or QUIT to return to TV viewing.



Captions come in handy when the television is on mute.

Standard closed captioning is available using the Caption 1 option.

Not all programming has closed captioning or text available; even though Captions 1, 2, 3, 4 and Text 1, 2, 3, and 4 are available for use to the broadcaster.

Mini glossary

CAPTIONS	The term for the words that scroll across the bottom of your TV screen; usually the audio portion of the program provided for the hearing impaired.
TEXT	The term for the words that appear in a large black frame and almost cover the entire screen; usually messages provided by the broadcaster.

Language Options

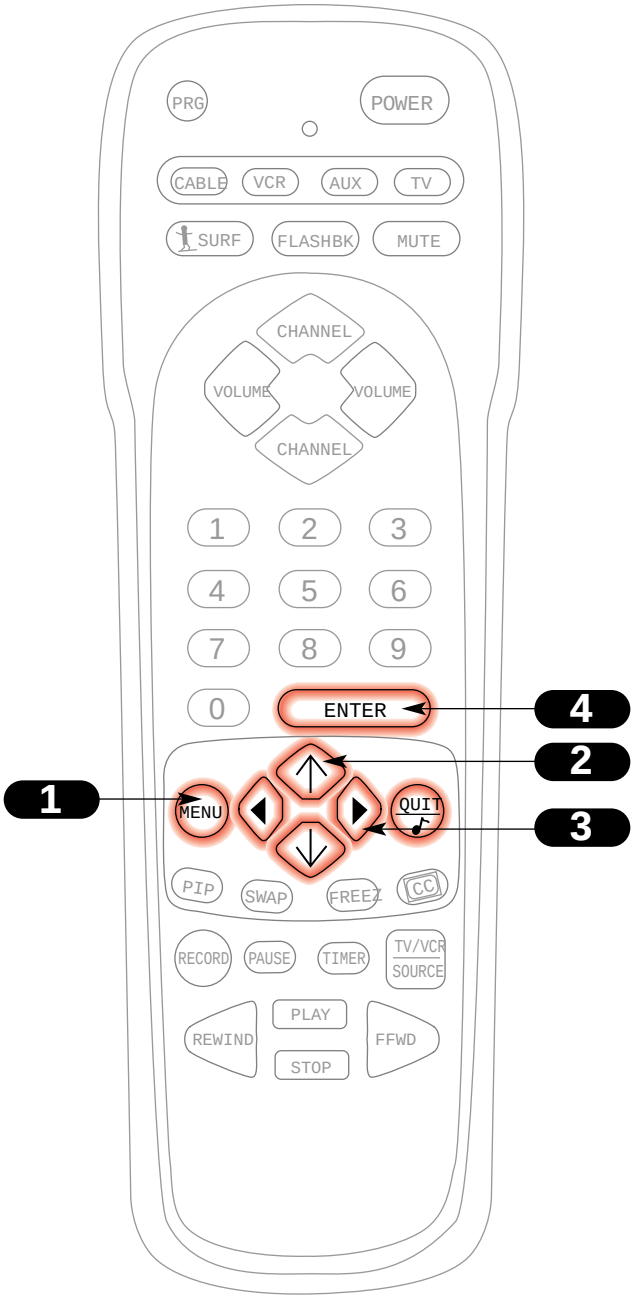
Choose the language you want all the menus to appear in.

1 Press the MENU key on the remote control so the Setup menu appears.

2 Using the UP/DOWN arrows on the remote control, select Language on your screen.

3 Press a RIGHT/LEFT arrow to choose any of the following options: English, Spanish or French.

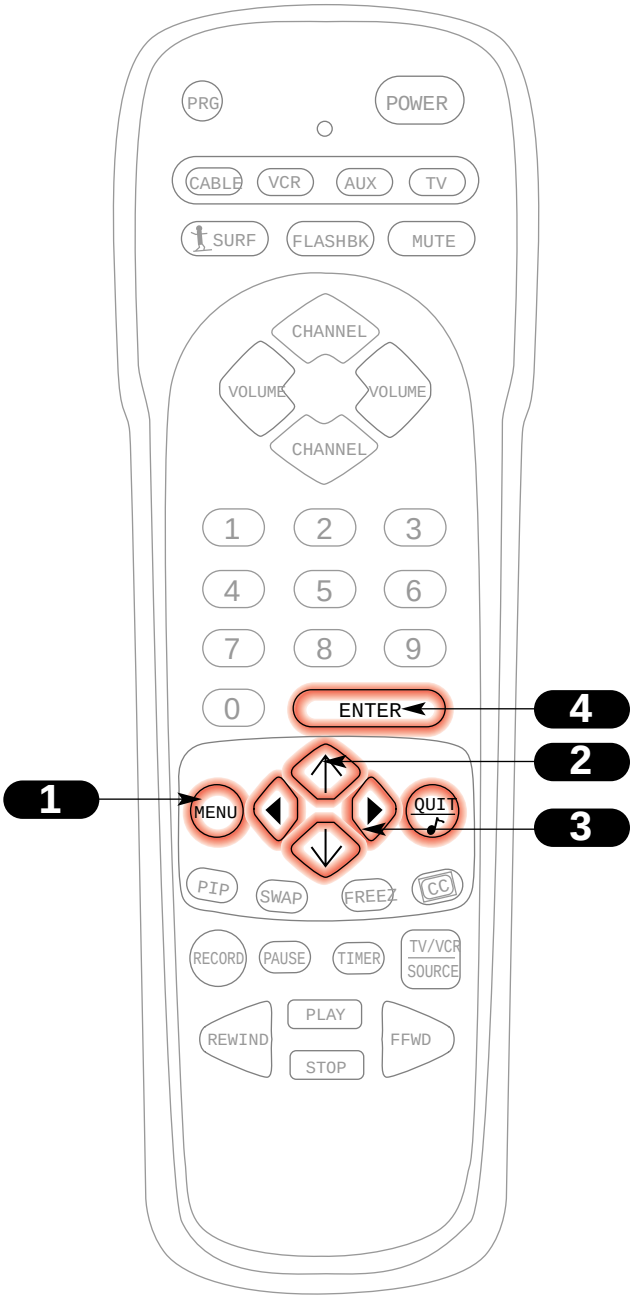
4 Press ENTER or QUIT to return to TV viewing.



Background

Add a background to the on-screen menus.

1. Press the MENU key on the remote control so the Setup menu appears.
2. Using the UP/DOWN arrows on the remote control, select Background on your screen.
3. Press a RIGHT/LEFT arrow to choose On or Off.
4. Press ENTER or QUIT to return to regular TV viewing.



Timer Setup

Automatically turn your Entertainment Machine on or off.

1 Press the MENU key on the remote control so the Special Features menu appears.

2 Using the UP/DOWN arrows on the remote control, select Timer Setup on your screen.

3 Press a RIGHT/LEFT arrow. The Timer Setup screen will appear.

4 Sleep Timer: Use the RIGHT/LEFT arrows to adjust the length of time until the TV shuts down (select a countdown from ten minutes to four hours).

Note: At this point, continue to step five to set the On Time, or press ENTER or QUIT to return to TV viewing.

5 On Time: Using the UP/DOWN arrows on the remote control, select On Time on your screen.

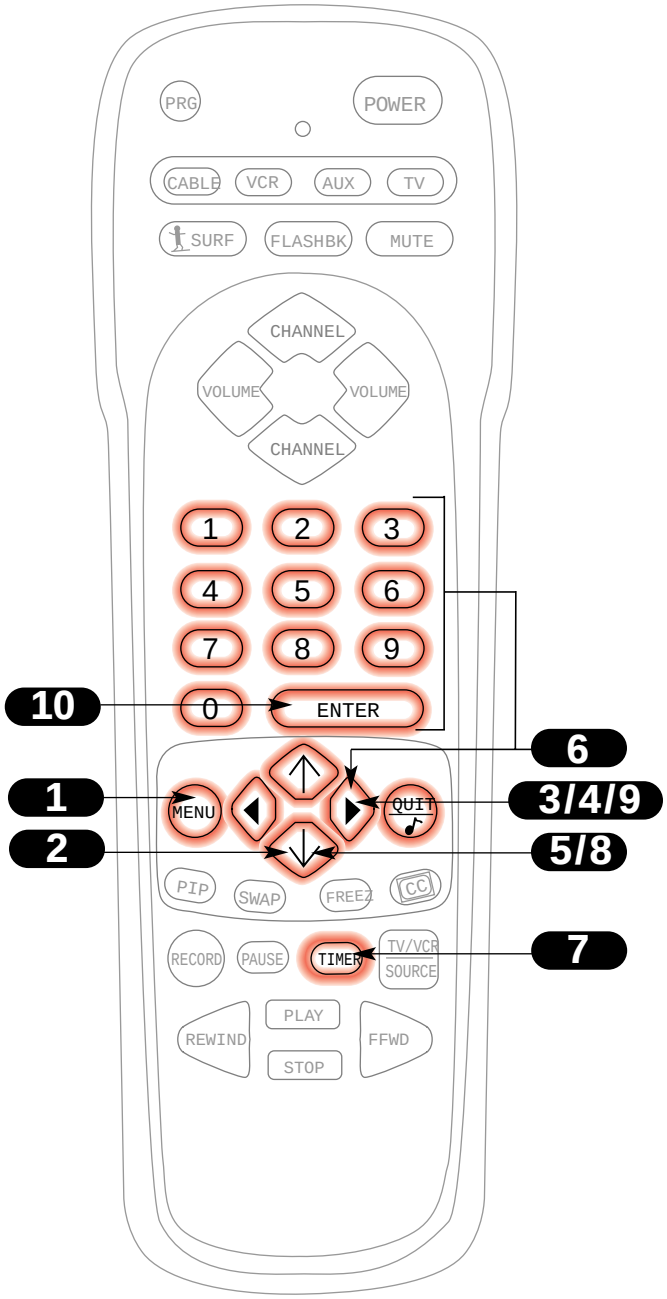
6 Press a RIGHT or LEFT arrow or use the NUMBER key pad to enter the time your TV will automatically turn on.

7 Press the TIMER button to select AM or PM.

8 Press the UP/DOWN arrows to select On/Off Timer.

9 Press the LEFT or RIGHT arrow to turn on the On/Off Timer.

10 Press ENTER or QUIT to return to TV viewing or continue programming by repeating the above steps for Off Time.



Use the number keypad to type in time settings.

The On/Off timer will not work until the Clock on your television has been set.

Channel Labels

1 With the CHANNEL UP/DOWN key, set your Entertainment Machine to the channel you want to label.

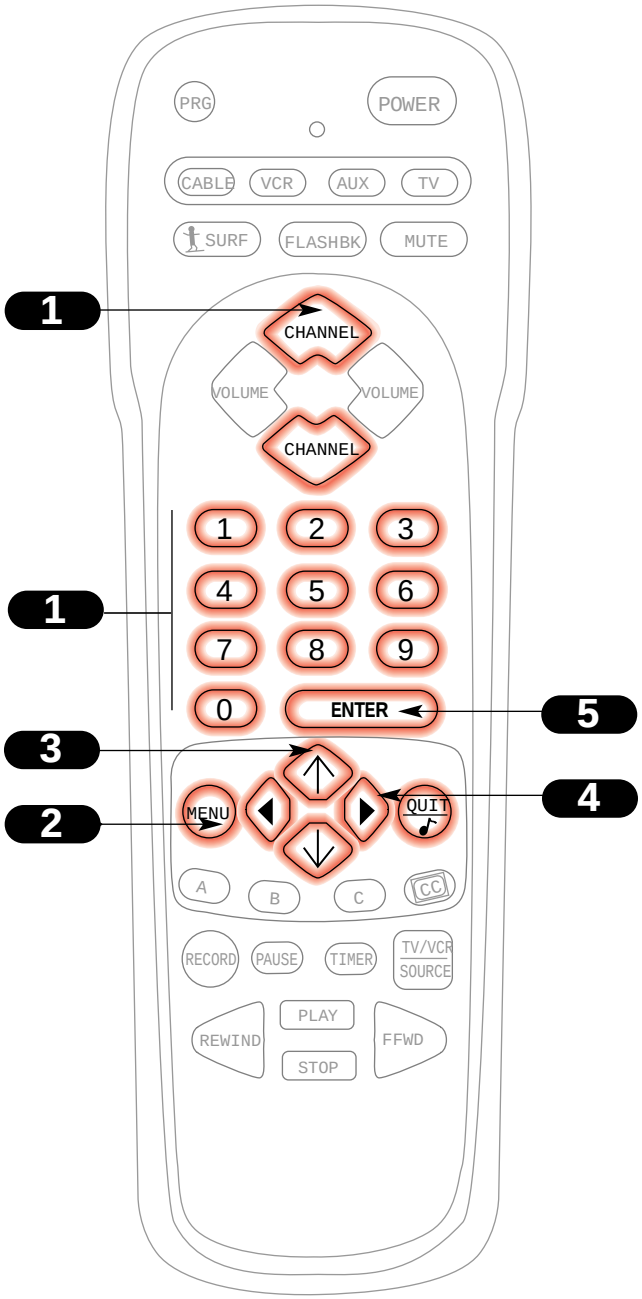
2 Press the MENU button TWICE until the Special Features menu appears.

3 Using the UP/DOWN buttons, select Ch. Labels in the menu.

4 Use a RIGHT/LEFT arrow to select a channel label. (Each press will bring up a different label.)

5 Press ENTER to accept the label and return to regular TV viewing.

NOTE: The (----) label indicates that your TV will accept the original, broadcast label, and (None) will block all labeling.



Label the channels for the Channel/Time Display.

Make sure you know what your kids aren't watching.

Parental Control

1 Press MENU twice until the Special Features menu appears.

2 Using the UP/DOWN arrows, select Parental Ctl. in the menu.

3 Press a RIGHT/LEFT arrow to enter the Parental Control menu.

4 With the UP/DOWN arrows, select **Block Ch**.

5 Choose a channel number. Press a RIGHT/LEFT arrow to choose Blocked or Unblocked. Choose another channel number and continue Blocking/Unblocking channels.

2/3 Use UP/DOWN and RIGHT/LEFT arrows for the following:

7 Choose **Block Video**, Use the RIGHT/LEFT arrows to Block or Unblock the A/V inputs.

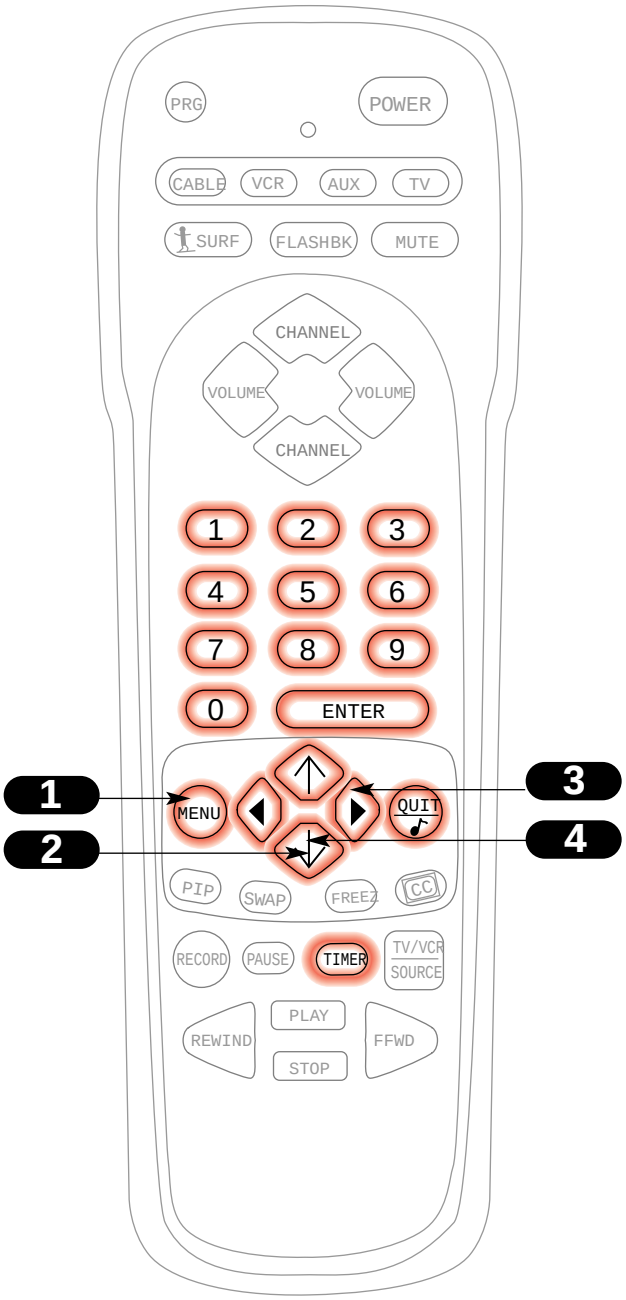
8 Choose **Set Hours**. Use the RIGHT/LEFT arrows to increase/decrease the hours parental Control will be active.

9 Choose **Set Password**. A display will appear on the screen, prompting you to enter a code. Use the Number Keypad, enter a four-number code. You will be asked to reenter the same code.

10 Choose **Lock On Off**. Use a RIGHT/LEFT arrow key to choose whether Parental Control will be On or Off, for the hours you specified.

Use the NUMBERS key pad to choose channel numbers.

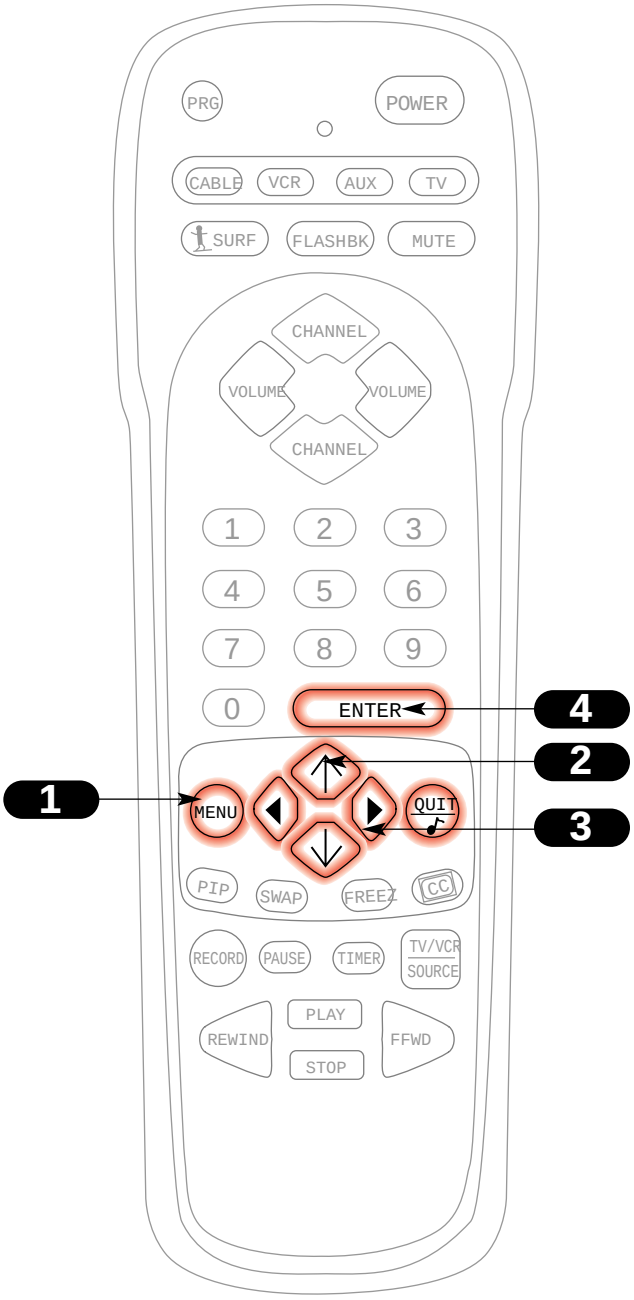
The On/Off timer will not work until the Clock has been set.



Auto Demo

1. Press the MENU key twice on the remote control so the Special Features menu appears.
2. Using the UP/DOWN arrows on the remote control, select Auto Demo on your screen.
3. Press a RIGHT/LEFT arrow to choose On or Off.
4. Press ENTER or QUIT to return to regular TV viewing.

Auto Demo will continue to operate until it is turned Off in the Special Features menu.



Your entertainment machine will show you all your menu options.

Customize the sound on your Entertainment Machine.

Audio Menu

1 Press the MENU key three times on the remote control until the Audio menu appears.

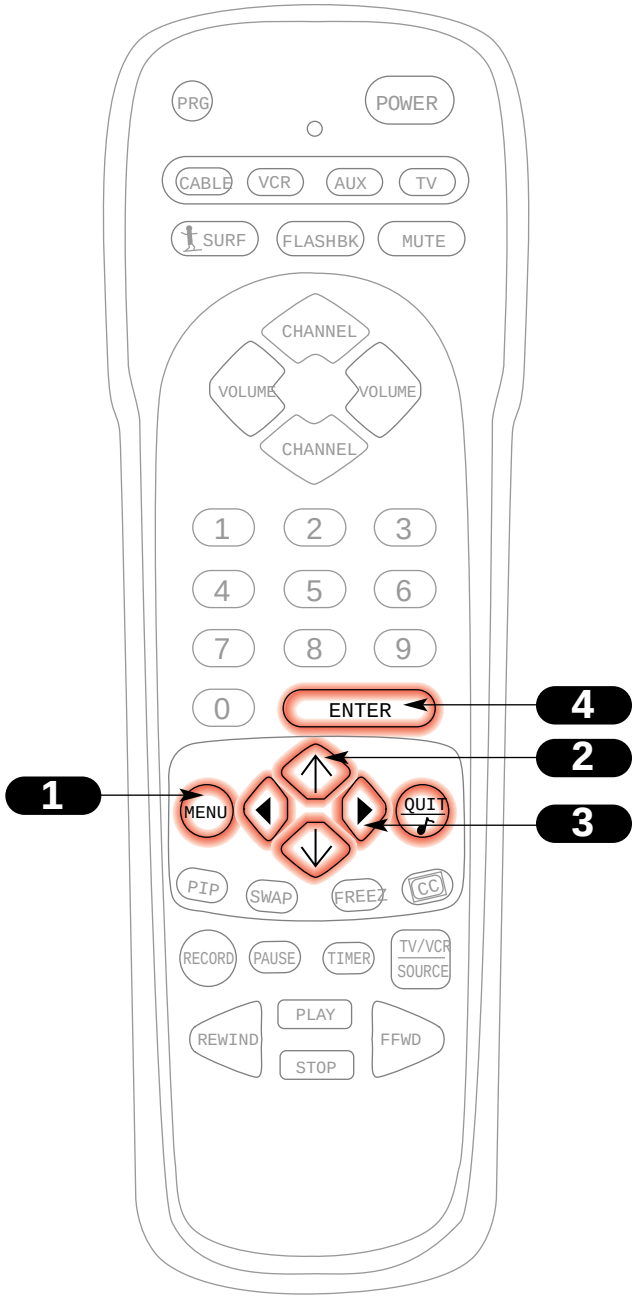
2 Using the UP/DOWN arrows on the remote control, select the setting you want to change. Choose from:

- **Bass:** Increase/decrease lower-end sounds.
- **Treble:** Increase/decrease higher-end sounds.
- **Balance:** Allows you to put the sound more to the left or right channel.
- **Audio Mode**: Choose from stereo sound, mono, or SAP.
- **Front Surr**: Turn the front surround sound speakers on or off.
- **SoundRite**: Scans for changes in sound level during commercials, then adjusts the sound to match your current level.
- **Speakers**: Turn the regular speakers on or off.

3 Press a RIGHT/LEFT arrow to change the option you have selected or adjust the sound setting to whatever you prefer.

4 Press ENTER or QUIT to return to TV viewing, or press the UP arrow to return to the Audio Menu to adjust another option.

Not all programming is broadcast in stereo sound, or has Second Audio Programming/SAP.



Video Menu

Customize the picture quality on your Entertainment Machine.

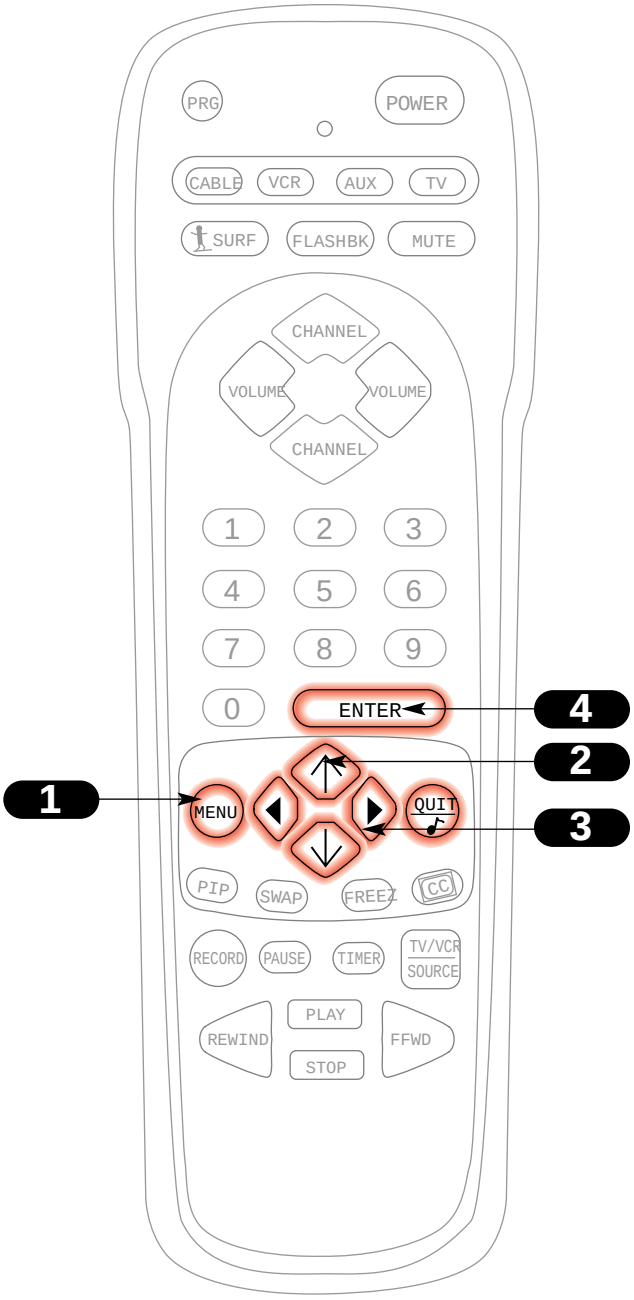
1 Press the MENU key four times so the Video menu appears.

2 Using the UP/DOWN arrows, select the menu option that you want to change.
Your options are:

- **Contrast:** Changes the amount of difference between black levels and white levels in your picture.
- **Brightness:** Increases or decreases the amount of white in your picture.
- **Color:** Adjust levels of all colors.
- **Tint:** Adjust the relative amounts of the color red and green in your picture.
- **Sharpness:** Raise or lower the definition of the picture. The lower the level, the softer the image will appear.
- **Color Temp:** Adjust the color qualities of the entire picture at once: warm, medium, and cool.
- **Picture Pref:** Choose either Custom or Preset. Custom allows you to set the picture the way you want. Preset moves all the above options back to their original, factory-set levels.

3 Press a RIGHT/LEFT arrow to adjust the option you have selected.

4 Press ENTER to return to regular TV viewing.



Someone left the picture looking terrible? Just choose Preset under Picture Pref (preference) to get the regular picture back quickly.

Control the picture qualities of your PIP inset.

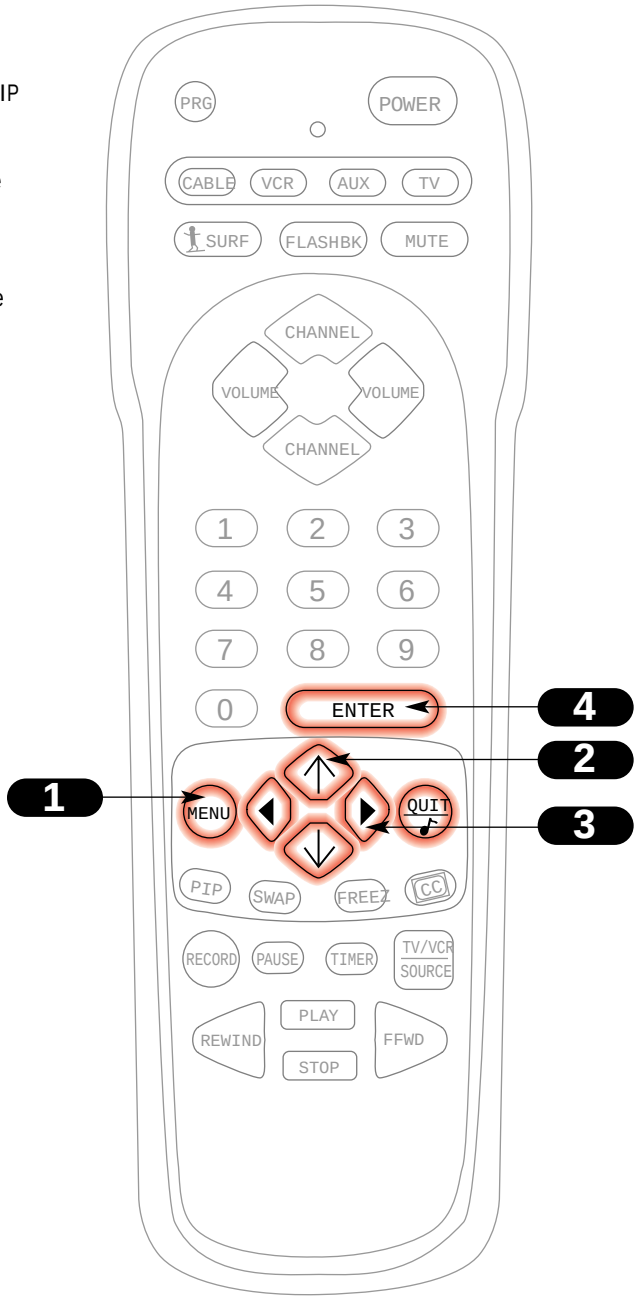
PIP Menu

1 Press the MENU repeatedly until the PIP Menu appears.

2 Using the UP/DOWN arrows, select the PIP option you want to change; Color, Size, or Tint.

3 Use a RIGHT/LEFT arrow to change the option.

4 Press ENTER to return to regular TV viewing.



Mini glossary

PIP This is the most common way to refer to the Picture-In-Picture (PIP) option.

Source Menu

This menu shows your viewing source options.

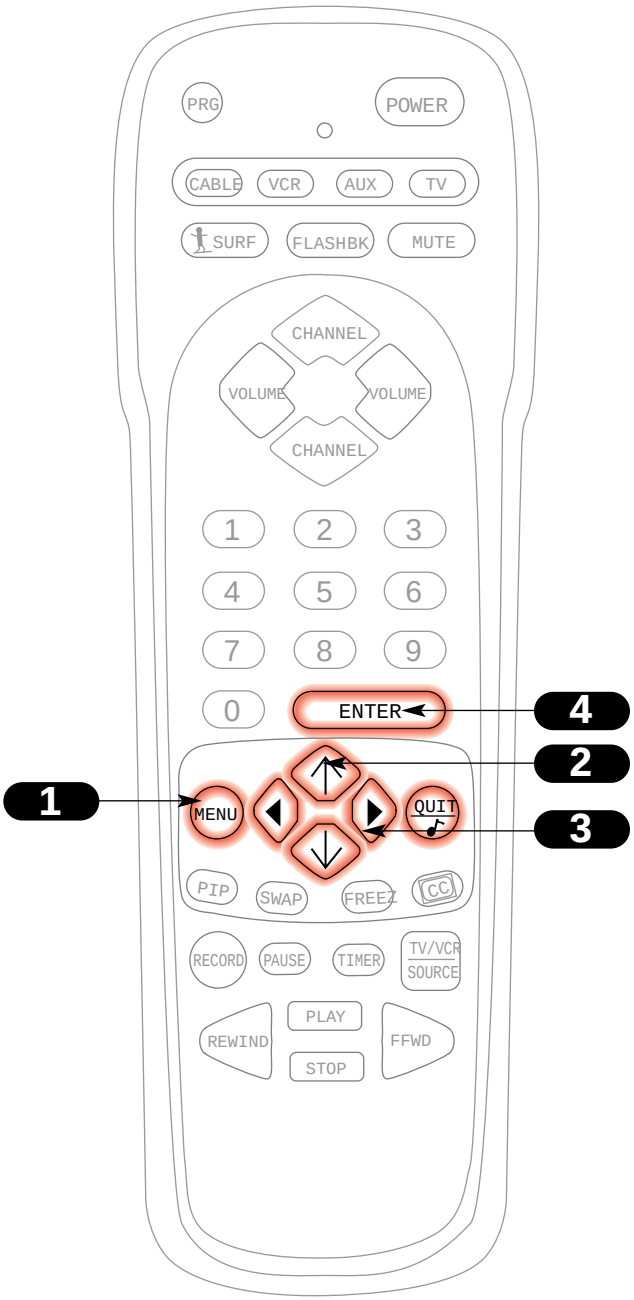
Choose the sources for your main picture and PIP.

1 Push the MENU key repeatedly until the Source Menu appears on your screen.

2 Using the UP/DOWN arrows, choose the source for Main picture or PIP inset.

3 Using the LEFT/RIGHT arrows, choose the source for Main picture or PIP inset. The names will correspond to the jacks on the back of your TV. If you connected a VCR to the Video 1 jacks, then select Video 1 to watch that VCR.

4 Press ENTER to return to regular TV viewing.



You can watch home movies and still scan for the big game.

Mini glossary

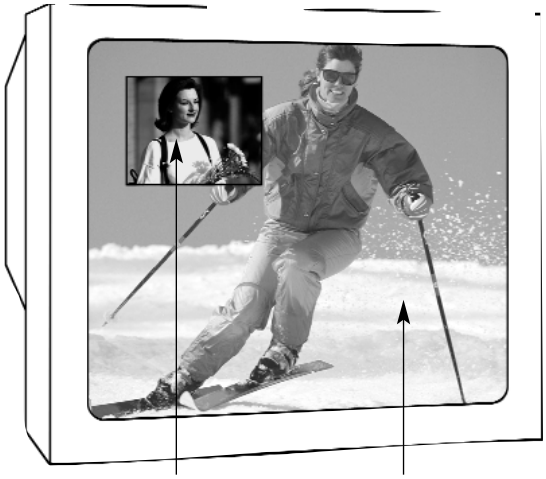
SOURCE The term for the equipment that provides audio and video information to your Entertainment Machine. VCR, DVD players, or Cable Boxes are examples of sources.

Picture-in-picture explained.

PIP Overview

YOUR PICTURE-IN-PICTURE FEATURE

The Picture-In-Picture (PIP) function allows you to put a smaller picture, called the "inset," on the bigger screen, or the "main" picture. You need some other piece of equipment, like a VCR, to act as a tuner to receive and display a second channel at the same time. Don't want to miss any of the big game, but hate commercials? Just put the game from your VCR tuner in the PIP inset, and surf your favorite channels using the TV tuner for the main picture.



WORKING WITH PIP

Just like your Entertainment Machine's main screen, PIP will need a source to take its image from. Set the main screen source to Antenna/Cable, then set the PIP source to Video 1, as an example. This can be adjusted under the Source menu (see page 31).

PIP can be used in any picture mode. Put Antenna/Cable in the inset while you watch a tape. Have a DVD disc going in the PIP inset while you watch a tape on the main screen.

POSSIBLE REASONS FOR ADJUSTING PIP SOURCE

1. You want to watch a video tape, but keep scanning for another movie or game. Set the PIP source to VIDEO 1, or 2 and you can watch the VCR and TV, swapping between the two.

2. You want to watch your favorite live program on Antenna/Cable on the main picture and when a commercial break appears, swap to the PIP inset which has a videotape in the VCR ready to play.

Mini glossary

TUNER	Any device that picks up broadcast signals and turns them into picture and sound.
SOURCE	Other equipment connected to the TV source inputs on the TV back connections panel; Video 1, or Video 2 for example.

PIP Operation

Learn to use the PIP features on your entertainment machine.

1 Press PIP to place the PIP inset on the main screen. Press PIP again to remove inset.

2 With PIP inset on, press SWAP to switch the inset image with the main screen image, press SWAP again to return.

3 With PIP inset on, press FREEZ to freeze the image in the PIP inset, press FREEZ again to resume motion.

Other PIP Operations

Channels

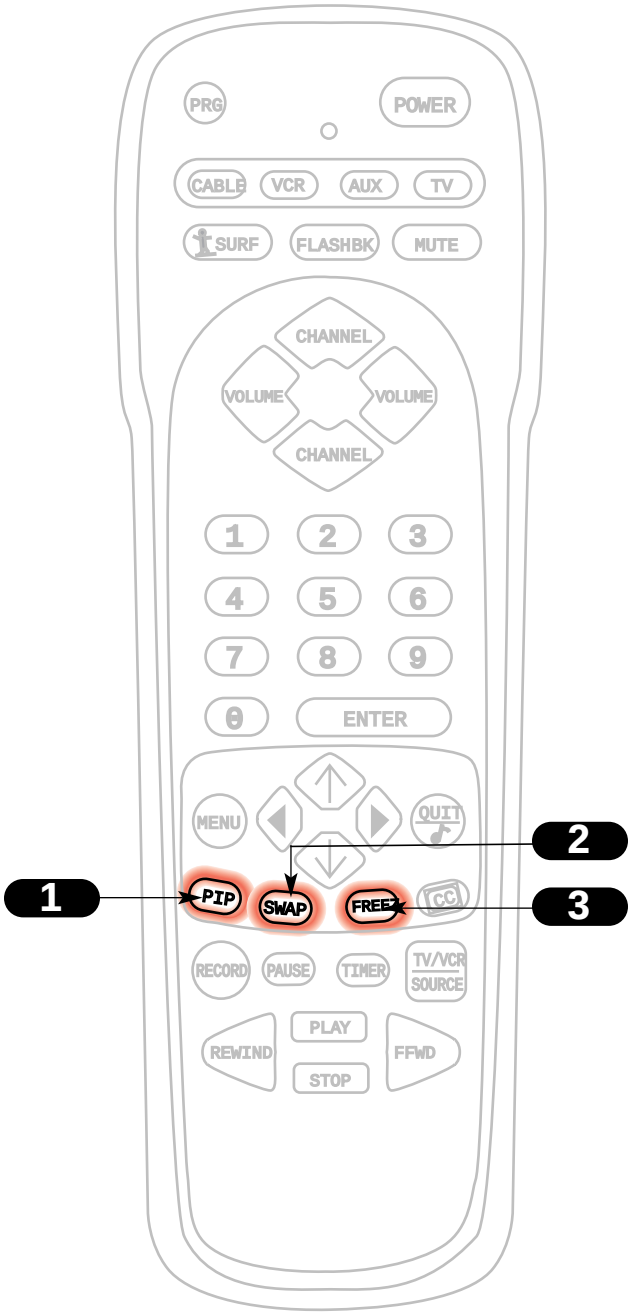
If the PIP source is VIdeo 1, or Video 2 jacks, tune channels on that equipment. If the PIP source is Antenna/Cable, PIP can be used to Freeze the Main picture in the PIP inset. You can then tune another channel and still have original channel frozen on the PIP inset.

PIP Inset Video Source

Press TV/VCR SOURCE to switch video sources for the PIP inset between, Antenna/Cable, Video 1, or Video 2.

Move PIP Inset around Screen

Press the up/down/left/right arrows to move the PIP inset to a different location on the main screen.



Mini glossary

PIP This is the most common way to refer to the Picture-In-Picture (PIP) option.

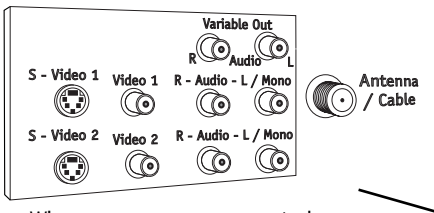
Choosing which source to watch for main screen and PIP inset.

PIP-Selecting Viewing Sources

1 Press PIP to place the PIP inset on the main screen. Press TV/VCR Source to switch input source for the PIP inset.

2 Or, go to the Source menu, highlight PIP Source and use RIGHT/LEFT arrows to select PIP inset source. Highlight Main Source and use RIGHT/LEFT arrows to select main picture source.

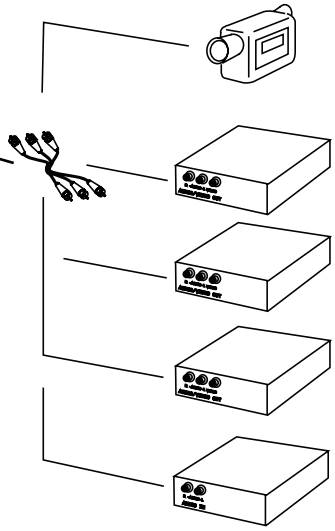
Main Screen or PIP Inset Sources
You can use:
Antenna/Cable
Video 1/S-Video 1
Video 2/S-Video 2



Where sources are connected

You can use any input source for the PIP inset that is connected to the TV connections panel. (Antenna/Cable, Video 1, or Video 2.)
Note: If you used the S-Video 1, or the S-Video 2 input, S-VHS 1, or S-VHS 2 will appear as available sources instead of Video 1, or Video 2.

If no equipment is connected to a source you select for the PIP inset, or if it is turned Off, the PIP inset will be black.



Examples of the types of equipment you can connect to your TV

Mini glossary

SOURCE	Equipment connected to the back connections panel jacks on the TV.
MAIN SOURCE	Connection or equipment providing the picture and sound for the main picture.
PIP SOURCE	Equipment providing the picture for the PIP inset.

Programming the Remote

Program your remote to work with a vast range of brand name devices.

1 The device you want to program should be on.

2 On the chart on page 39/40, find the type of device you're programming, and then find the brand name. Make a note of the three-digit code, you'll need it soon.

3 Press and hold the PRG key. It's recessed so it doesn't get pushed accidentally. Use a small object. When the indicator light turns on, you can release the key.

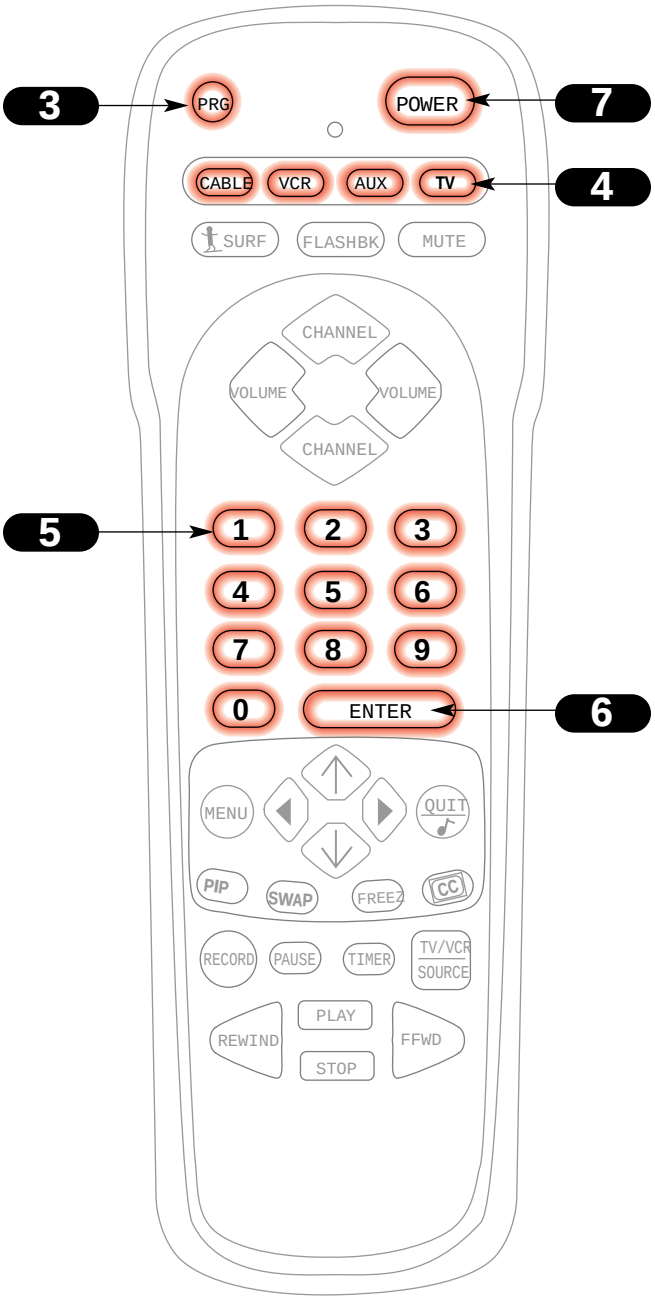
4 Push the key name with the type of device you're programming (VCR, CABLE, AUX, TV).

5 Using the number pad, enter the three digit code you found on page 39/40.

6 Press ENTER to save the code. (The indicator light will flash 3 times, then turn off to indicate the code is valid.)

7 Aim the remote at the device and push the POWER key. It should turn off. If not, try the other codes listed and continue from step three.

Note: To reset remote to factory settings, enter 9-1-1, in step 5.



Programming your Zenith remote will allow you to use one remote to work up to 7 different things.

Not all devices will work with your Zenith remote control.

Mini glossary

PROGRAMMING	Procedure to set up remote to operate other equipment.
PRG	Programming key.
DEVICE	Infra-red remote controllable electronic accessory.

Amplifier Volume Override

Control the volume on your home audio system without changing modes.

1 Find the code that operates your amplifier. Test it to make sure it's the correct one by following the procedure in "Programming Your Remote" on the previous page.

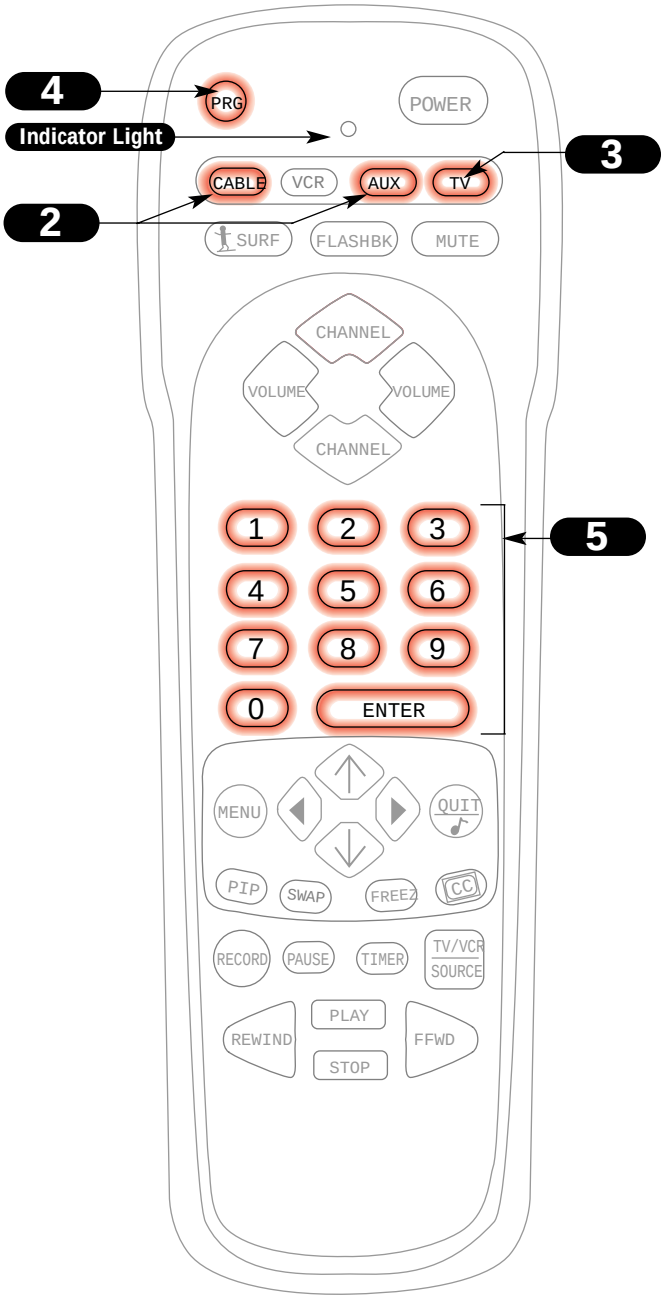
2 Program your audio system into the CABLE or one of the available AUX modes.

3 Select the mode you want amplifier volume to appear (e.g. TV).

4 Press and hold PRG on your remote until the indicator light stays lit, then release.

5 Press 4-9-9; then ENTER on the remote. The indicator light will flash three times if code is accepted.

6 Audio system volume/mute now appears in the mode selected.
Note: You can also program Cable Box Volume and Mute control (if available) into your cable box mode (CABLE or AUX mode) by repeating the steps for programming on the previous page but entering 3-9-9, instead of a brand code, then pressing ENTER.



To put everything back to normal, reprogram the mode from step 3 with the original brand code.

If you can't find the code for your amplifier, use the Auto Find feature on page 38.

Mini glossary

AMPLIFIER	Audio device which sends sound to speakers, like as Audio Tuner, Receiver, or Amplifier. See Audio Tuners/Amp list on page 40.
CABLE BOX VOLUME/MUTE	Some cable boxes have volume controls.

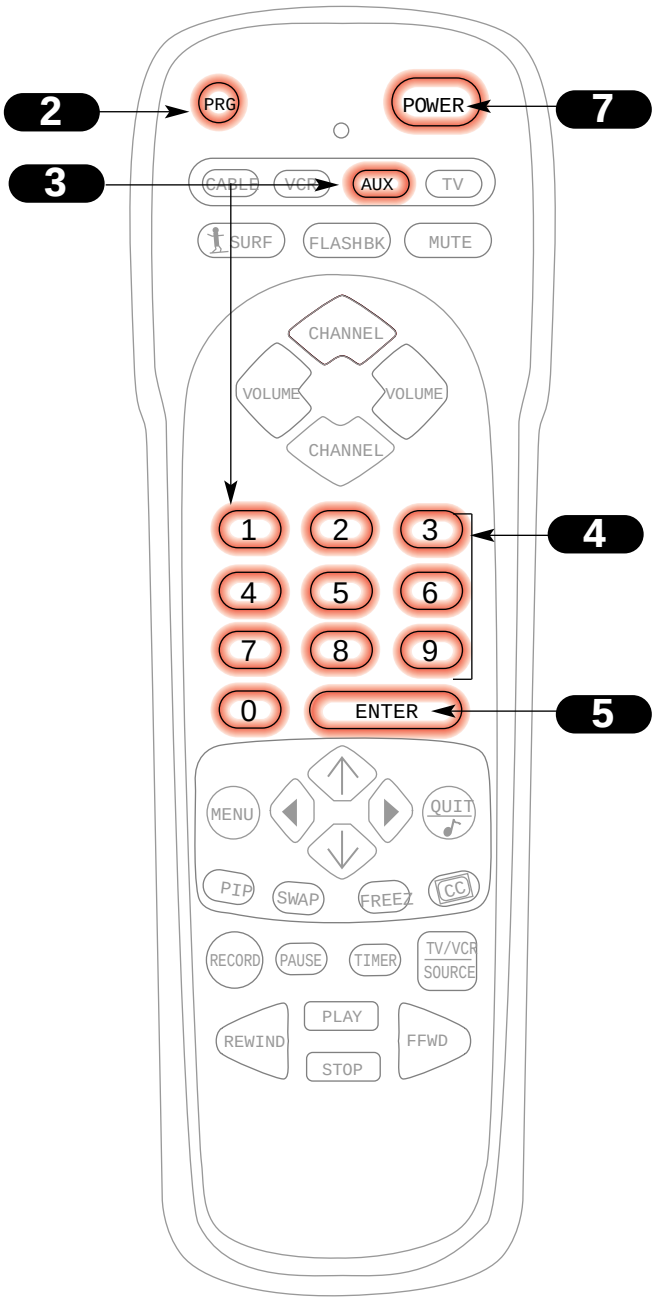
AUX+1, AUX+2, AUX+3

Control up to seven different devices with your remote!

1. Refer to the chart on page 39/40 to find the type and brand name of the device you're programming.
2. Press and hold the PRG key until the indicator light turns on, then release ther PRG key.
3. Press the AUX key and the 1 on the NUMBER key pad at the same time (for AUX +1).
4. Using the NUMBER key pad, enter the three-digit code for the device you've selected.
5. Press ENTER to save the code.
6. With the device turned on, point the remote at it and press POWER. It should turn off.
7. Repeat the steps for AUX+2, and AUX+3.

Programming your Zenith remote will allow you to use one remote to work up to 7 different products or devices.

Some devices may not work with your Zenith remote control.



Mini glossary

AUX — Auxiliary equipment. Can be any equipment which does not have a dedicated key on the remote like cable or VCR. Typically a second VCR, stereo system, audio tape deck, etc.

Use the remote control to search all possible codes.

Remote Control Auto-Find

1 Turn on the device you want the remote to control.

2 Press and hold the PRG key until the indicator light turns on, then release the PRG key.

3 Press the key for the device you are trying to program (CABLE, VCR, AUX, TV).

4 Press 0-0-0 (zero-zero-zero), then press the ENTER key right away.

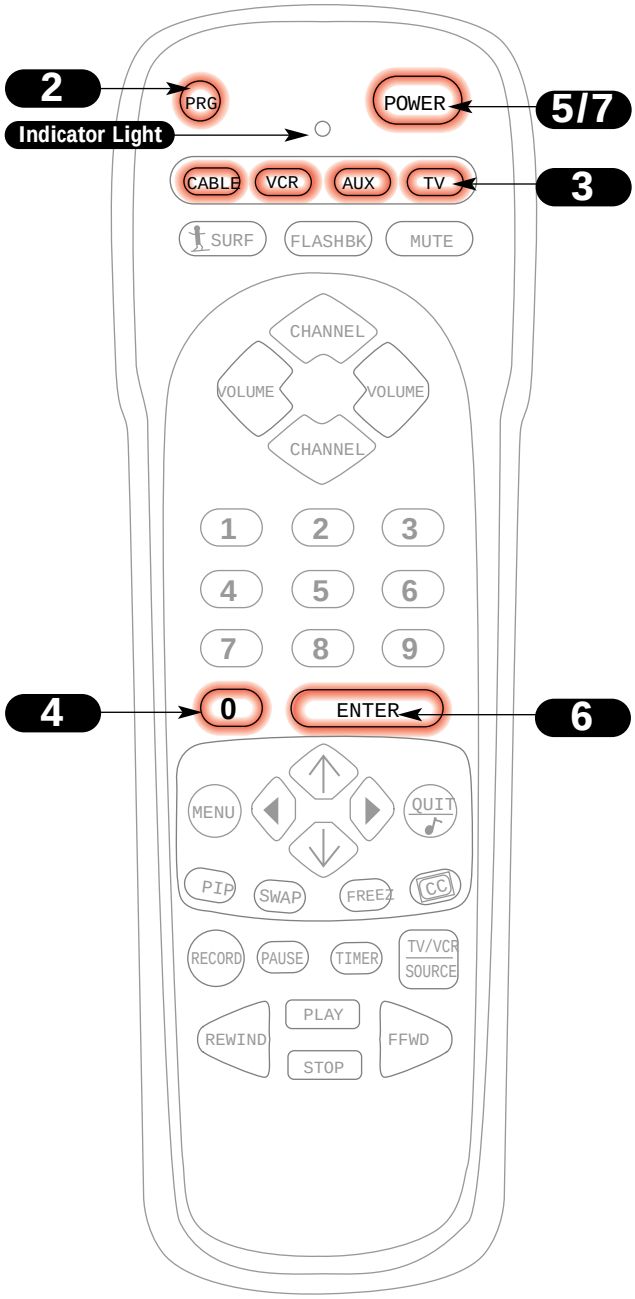
5 Aim the remote at the correct device and push the POWER key (The indicator light will turn off while the POWER key is pressed). Allow a second to pass, then push the POWER key again. Repeat until the device turns off.

6 Push ENTER to save the code (The indicator light will flash 3 times and then turn off).

7 Press POWER to turn the device back on.

You can quickly get out of Auto Find by pressing PRG.

If the indicator light stays on while you push Power instead of turning off, all the codes have been tried and your device can't be programmed into the remote.



Programming Codes

Find the codes you need to program your remote. On this page: TVs and VCRs.

TVs

Admiral 116 121 130 133
Adventura TV/VCR 154
Akai 104
Amark 103 146
AOC 104
Bell & Howell . . . 121
Broksonic 131 136
Candle 139
Centurion 119
Citizen 121 139
Contec 141
Coronado 103
Crown 103
Curtis Mathes 116 119 121
Daewoo 149 159
Daewoo TV/VCR . . 148
Daytron 119
Elektra 121
Emerson 103 104 123 124 131 136 145
Emerson TV/VCR . . 158
Fisher 109 118
Funai TV/VCR 154
General Electric . . 106 107 114 116 117 161
Goldstar 103 104 119 147
Goldstar TV/VCR . . 153
Hitachi 102 103 129 163
J.C. Penney 104 110 114 117 119
JVC 125 132 164
KMC 103
KTV 103 104 138
Kurazai 121
Lodgenet 121
Logik 121
LXI 133 137
Magnavox 103 112 113 117 119 127 128 139 165
Magnavox TV/VCR 173
Majestic 121
Marantz 104 120 155
Megatron 146
Memorex 121
MGA/Mitsubishi. . . 104 119 120 130 140 155
Montgomery Ward 103 104 105 113 114 119 121 130 133
NEC 104 119
Panasonic 106 107 160 166
Panasonic TV/VCR 174
Philco 103 104 112 113 139
Philips 112 113
Pioneer 135
Portland 103
ProScan 116 157 162 167
Quasar 106 107
RCA 104 116 126 157 161 162 167 168
Realistic 105 123 124
Sampo 119
Samsung 103 119 134 141
Sanyo 108 109 118
Scott 119 124
Sears 103 108 109 110 111 118 134
Sharp 103 105 122 133 137 156 169
Signature 2000 . . . 103 104 105 113 114 119 121 130 133
Sony 115 143 151 170
Soundesign 139
Sylvania 112 113 117 119 127 128 139
Symphonic TV/VCR 154
Tatung 106
Teknika 103 112 121 124 139
Telerent 103 121
Toshiba 110 111 134 171
XR 1000 121
Yorx 119
Zenith 101 149 175
Zenith TV/VCR . . . 153 154 172

VCRs

Admiral 208 261
Adventura 231
Aiwa 231
Akai 223 238 241
Audio Dynamics . . 202 218
Bell & Howell 206 247
Broksonic 221 226 250 255
Canon 214
Citizen 209
Craig 212
Curtis Mathes . . . 214 259
Daewoo 244 246 248 254
Daytron 236 246
DBX 202 218
Emerson 203 209 221 223 226 233 235 243 250
Fisher 211 212 213 247
Funai 231
General Electric . . 214 216 220
Goldstar 209
Go Video 256 262 263
Hitachi 215 257
Instant Replay . . . 214 227
J.C. Penny 214 215 218 227
JVC 202 224 225 258
Kenwood 202
Logik 239
LXI 209 231
Magnavox 207 214 231
Marantz 207 218
Marta 209
Memorex 206 212 214 231
Mitsubishi 204 222 252 264
Montgomery Ward 208 214 216 219 231 249
Multi Tech 239
NEC 202 218
Orion 250
Panasonic 214 251 259
Pentax 215
Philco 207 214
Philips 207 214 227
Pioneer 210 215
Portland 246
ProScan 216 260
Quasar 214 259
RCA 215 216 220 227 240 242 249 260
Realistic 206 208 212 214 231
Samsung 220 230 238
Sansui 239
Sanyo 206 212 247
Scott 204 205 233 243
Sears 206 209 211 212 215
Sharp 208 261
Shintom 239
Signature 2000 . . . 208 214 216 219 231 249
Sony 217 232 237
Sylvania 207 214 227
Symphonic 231
Tashiko 209
Tatung 202
Teac 202 231
Teknika 209 234
Toshiba 205 215
XR 1000 239
Vector Research . . 204 218
Yamaha 202 218
Zenith 201 224 225 229 237

Find the codes you need to program your remote. On this page: Cable, Satellite, CD Players, Tape Decks and Audio Tuners and Amplifiers.

Programming Codes

Cable Satellite

Allegro 358 362
Allegro A/B Switch 361
Gemini 305 331 338
General Electric. . . 367
General Instrument 304 305 306 307 308 309 310 318
Hamlin 302 303 345 365 366
Jerrold 304 307 308 309 310 318 360 363
Kale Vision 335
Macom 314 321
Magnavox 334
NSC 335 339 368 369 370
Oak 311 332 342
Panasonic 313 320
Paragon 333
Philips 347 350 352 354 355
Pioneer 315 343
RCA DSS 373
Regency 329
Samsung 335
Scientific Atlanta 316 323 336 364
Sprucer 313
Standard Comp . . . 335
Stargate 379
Texscan 339 356 371
Tocom 317 318 346
Unika 348 362
United Satellite . . 344
Universal 358 362
Vid Tech 340
Video Way 349
Viewstar 354 355 372
Zenith 301 353 374
Zenith Satellite . . 312 328 330 351 378

Video Disc Players

Pioneer 402 403
Sanyo 401
Sony 404
Zenith 401

Audio CD Players

Akai 409 424
Crown 410
Denon 411
Fisher 412 438
Goldstar 460
Harman/Kardon . . 413
JVC 415
Kenwood 412 416 417 441
Magnavox 421 422 433 434
Mitsubishi 423 424
NAD 425 426 447
Nakamichi 427 428
NEC 429
Onkyo 430
Panasonic 431 432
Philips 421 433 434
Pioneer 431 435
Quasar 432
Radio Shack 431 436 439 440 441
RCA 437
Sanyo 438 439
Scott 440
Sharp 441 442
Sony. 443 444 445
Soundesign 461 498 501 502
Sylvania 433
Teac 446
Technics 432 459
Toshiba 447
Yamaha 448
Zenith 460 461 498 501 502

Audio Tape Decks

Denon. 455
Harman/Kardon. . . 456
JVC 457
Kenwood 450
Onkyo 458
Philips DCC 454
Pioneer 451 478
Sony. 452

Audio Tuners/Amps

Denon. 462 463
Fisher 464
Goldstar 460
Harman/Kardon . . 465
JVC 466
Kenwood 468 469
Marantz. 472 503
Onkyo 473
Philips 475 476
Pioneer 477 478 479
Radio Shack 487 488
Realistic 480
Sanyo 481
Scott 482
Sharp 483
Sony. 489 490 491 492
Soundesign 461 498 501 502
Teac 494 495
Technics 497
Yamaha 496
Zenith 460 461 498 501 502

Remote Key Functions by Mode

Preset or default key functions by mode for Zenith products

A complete list of key functions for your remote control.

KEY NAME	TV Mode Zenith Code 101	VCR Mode Zenith Code 201	Cable Mode Zenith Code 353	AUX Mode Zenith Code 401
POWER	TV On/Off	VCR On/Off	Cable Box On/Off	AUX TV/DISC
CABLE	Selects Cable	Selects Cable	Selects Cable	Selects Cable
VCR	Selects VCR	Selects VCR	Selects VCR	Selects VCR
AUX	Selects Aux	Selects AUX	Selects Aux	Selects AUX
TV	Selects TV	Selects TV	Selects TV	Selects TV
SURF	Surf On/Off	VCR AM/PM	CABLE FC Fav Ch	AUX Audio
FLASHBK	TV Flashback	VCR Flashback	Cable Flashback	AUX Frame/Time
MUTE	TV Mute	TV Mute	TV Mute	TV Mute
CHANNEL UP	TV Channel Up	VCR Channel Up	Cable Channel Up	AUX Skip >>
CHANNEL DN	TV Channel Dn	VCR Channel Dn	Cable Channel Dn	AUX Skip <<
VOLUME (RIGHT)	TV Volume Up	TV Volume Up	TV Volume Up	TV Volume Up
VOLUME (LEFT)	TV Volume Dn	TV Volume Dn	TV Volume Dn	TV Volume Dn
1	TV Digit 1	VCR Digit 1	Cable Digit 1	AUX Digit 1
2	TV Digit 2	VCR Digit 2	Cable Digit 2	AUX Digit 2
3	TV Digit 3	VCR Digit 3	Cable Digit 3	AUX Digit 3
4	TV Digit 4	VCR Digit 4	Cable Digit 4	AUX Digit 4
5	TV Digit 5	VCR Digit 5	Cable Digit 5	AUX Digit 5
6	TV Digit 6	VCR Digit 6	Cable Digit 6	AUX Digit 6
7	TV Digit 7	VCR Digit 7	Cable Digit 7	AUX Digit 7
8	TV Digit 8	VCR Digit 8	Cable Digit 8	AUX Digit 8
9	TV Digit 9	VCR Digit 9	Cable Digit 9	AUX Digit 9
0	TV Digit 0	VCR Digit 0	Cable Digit 0	AUX Digit 0
ENTER	TV Enter	VCR Enter	Cable Enter	Aux Display
MENU	TV Menu	VCR Menu	Cable Menu	AUX Program
UP ARROW	TV Select Up	VCR Select Up	Cable Up Arrow	AUX Part
DOWN ARROW	TV Select Dn	VCR Select Dn	Cable Dn Arrow	AUX Random
LEFT ARROW	TV Adjust Left	VCR Adjust Left	Cable Left Arrow	AUX x3 FAST <
RIGHT ARROW	TV Adjust Right	VCR Adjust Right	Cable Right Arrow	AUX x3 FAST >
QUIT/	TV Seq Sound	VCR Quit	Cable Quit	AUX Clear
PIP	TV PIP	VCR+	Day Up	AUX Repeat-Side
SWAP	TV PIP Swap	VCR Channel Map	Day Down	AUX Repeat-A-B
FREEZ	TV PIP Freeze	VCR Search	Cable Pg Up	AUX Repeat-Chap
CC	TV Closed Captions	VCR Memory	Cable Pg Down	AUX Memory
TIMER	TV Timer	VCR Timer	Cable Timer	AUX Still
TV/VCR/SOURCE	TV Sources	TV Tuner or VCR Tuner	Cable Info	AUX TV/Disc
RECORD	VCR Record	VCR Record	Cable Buy	AUX Edit
PAUSE	VCR Pause	VCR Pause	Cable Guide	AUX Pause
REWIND	VCR Rewind	VCR Rewind	VCR Rewind	AUX Scan <<
PLAY	VCR Play	VCR Play	VCR Play	AUX Play
STOP	VCR Stop	VCR Stop	VCR Stop	AUX Stop/Eject
FFWD	VCR Fast Forward	VCR Fast Forward	VCR Fast Forward	AUX Scan >>

Some of the functions shown above may not be available on your equipment.

Caring for your Entertainment Machine.

Maintenance

Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you will have with your new Entertainment Machine. Be sure to turn the power off and pull out the plug before you begin any cleaning.

Screen Cleaning

1. Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of luke-warm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.

2. Make sure the excess water is off the screen, and then let it air-dry before you turn on your Entertainment Machine.

Cabinet Cleaning

1. Use a soft cloth with a mild soap solution to wipe the cabinet (avoid using any cleaner that says "industrial strength" or "will wash the white off of rice" on the label).

2. Rinse the cloth and wipe the cabinet again.

3. Let the cabinet air-dry before turning the Entertainment Machine on.

Wood Cabinet

Use a quality wood cleaner and polish. This will protect the Entertainment Machine from dirt and dust, as well as keep the cabinet looking new.

Extended Absence

If you leave your Entertainment Machine dormant for a long time (such as a vacation), it's a good idea to unplug the power to protect against possible damage from lightning or power surges. If you use an off-air antenna, you may also want to disconnect it from the back of your TV before leaving.

If you unplug your Zenith Entertainment Machine, you may have to reset the clock using the Clock Set menu described earlier. See page 19.

Troubleshooting

Some quick and easy tips to fixing problems yourself.

SYMPTOMS	SOLUTIONS
Snowy picture and lousy sound.	• Check your antenna connection or location.
Multiple images or 'ghost shadows.'	• Check your antenna direction and/or location. • Make sure the wire from your antenna to your Entertainment Machine is properly connected.
Interference: Sharp lines across the screen and lousy sound.	*The following may cause image problems or distortion: Electrical appliances, powerful lights, cars, trucks; computers or portable phones; medical equipment* • If possible increase the distance between your Entertainment Machine and the offending appliance. Or shut one of them off.
Normal picture but no sound.	• Check volume levels. • Make sure the TV is not Muted. • Try another channel. The problem may be the broadcast, not your Entertainment Machine. • Are the Audio A/V cables properly installed?
No picture and lousy sound.	• Are you in TV or cable tuning mode, and should be in the other? • Make sure output channels on all A/V equipment are on the same channel (3 or 4). • Check that all connections are tight.
No picture and no sound — The thing is just DEAD!	• Is the AC power plugged in? • Check that your AC power outlet works. (Test it by plugging in something else or try another plug.) • Make sure your brightness and audio controls are set properly. • Try another channel. The problem may be with the broadcast.
No color, but the sound is O.K.	• Check the color control in the Video menu. • Try another channel. The problem may be with the broadcast.
Picture has a big black box on it, but the sound is O.K.	• The CC (closed caption) option may be in Text mode. Select OFF in the Captions menu (see page 20).
Picture has two horizontal black bars, one on top and one on bottom.	• Your program is in letterbox. This means that the shape of your TV is a square, but the program is a rectangle. Think of the bars as empty space the program doesn't fill; not picture that's blocked out. Because this format is a direct representation of film as you see it in the movies, you are actually seeing MORE of the program when you see those bars. Trust us.
Remote control doesn't work.	• Make sure the batteries are fresh and installed properly.

Troubleshooting cont'd

Some quick and easy tips to fixing problems yourself.

Menu options can't be changed or selected.	• Try unplugging your Entertainment Machine for a few minutes, then plug it back in. (Don't forget to reset the clock.)
No picture or sound when any non-cable source is selected.	• Check to see if the source equipment has been turned on. • Make sure that the connections are secure on the back of your TV and on the source equipment.
Weak or no Stereo Sound when using a stereo VCR.	• Check to see if all the connections are secure. • Look in the Audio mode menu to see if all the settings are correct.
The PIP inset is black or lacks contrast when VIDEO 1 is the PIP source.	• You might want to adjust the PIP picture settings under the PIP menu. • Check that all the wires are connected properly.
The PIP inset is "snow" when the source is Antenna/Cable, Video 1, or Video 2.	• Look to see if the TV/VCR button on your VCR has the TV selected.
There is no picture in the PIP inset when using VIDEO 1 for the PIP and Antenna/Cable for the main picture.	• Look to see if the TV/VCR button on your VCR has the TV selected.

If all else fails, try unplugging your entertainment machine for about 5 minutes, then plugging it back in. (Don't forget to reset the clock.) If that doesn't work, call 1-847-391-8752, extension 5, between 8:30 am and 4:30 pm Central Standard Time.

Glossary

A complete list of definitions for words found in this guide.

A/V CABLES Audio/Video cables. Three cables bunched together—Right audio (red), Left audio (white), and Video (yellow). A/V cables are used for stereo playback of videocassettes and for higher quality picture and sound from other A/V devices.

A/V DEVICE Any device that produces video or sound (VCR, DVD, cable box, or television).

ADD This function lets you add new channels to list that you'll scroll through when using your remote.

AMPLIFIER An external machine that amplifies sound from a television, CD player, VCR, DVD or other A/V device.

ANTENNA The physical receiver of television signals sent over the air. A large metal piece of equipment does not always have to be visible for your home to be using an antenna.

CAPTIONS/TEXT A form of subtitling that writes out the dialog for your program.

DATA SOURCE A jack for hooking up optional equipment that gives you access to the Internet through your TV.

DELETE This function lets you remove channels that you don't watch from the list you'll scroll through.

ICON A small picture on your screen that represents a function or menu item.

INPUT Refers to the jack that receives a signal into the TV, VCR or other A/V device.

JACK A connection on the back of a TV, VCR, or any other A/V device. This includes the RF jack that is threaded with a place for a small wire in the center, and the Audio/Video jacks that have a bigger opening and are color-coded.

MODE The device that the remote control is currently controlling (TV, VCR, Cable, etc.) is its "mode."

MONO SOUND Mono (monaural) sound is one channel of sound. On more than one speaker all the speakers play the same audio.

OHM RF CABLE The wire that comes from an off-air antenna or cable service provider. Each end looks like a hex shaped nut with a wire sticking through the middle, and it screws onto the threaded jack on the back of your TV.

OUTPUT Refers to the jack that sends a signal out of a VCR, DVD, or other A/V device.

Glossary (cont'd)

A complete list of definitions for words found in this guide.

PIP	This is the most common way to refer to the Picture-In-Picture (PIP) option.
SECOND AUDIO PROGRAMMING/SAP	Second Audio Programming (SAP) is another, separate, audio channel available with some programming. Choosing SAP often refers to listening to audio in another language, such as Spanish or French.
SIGNAL	Picture and sound traveling through cable, or on the air, to your television screen.
SOURCE	The term for the equipment that provides audio and video information to your Entertainment Machine. VCR, DVD players, or Cable Boxes are examples of sources.
STEREO SOUND	Stereo (Stereophonic) sound refers to audio that's divided into right and left sides.
SURF	The surf function creates a special list of your favorite channels. You can access this group of channels by pushing the surf button on the remote.
TUNER	Any device that picks up broadcast signals and turns them into picture and sound.

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Find what you want quickly.

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Your Zenith Warranty

Direct-View Color TV Welcome to the Zenith family! We believe that you will be pleased with your new Zenith Entertainment Machine. Please read this warranty carefully, it is a "LIMITED WARRANTY" as defined under Federal Law. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state within the U.S.A.

ZENITH RESPONSIBILITY

Service Labor During a period of 90 days from effective warranty date, Zenith will provide service labor by a Zenith authorized service center when needed, as determined by the Zenith service center, as a result of manufacturing defects.

Parts New or remanufactured replacements for factory-defective parts will be supplied by a Zenith authorized service center for one year from effective warranty date (color picture tube — two years). Such replacement parts are warranted for the remaining portion of the original warranty period.

Home Service Warranty service for 21" diagonal (U.S.A.) or larger screen size models is provided in the home in most cases. (Some repairs may require the unit to be taken by the servicer to the repair facility and returned, at no additional charge.)

Not Covered This warranty covers manufacturing defects and does not cover installation, adjustment of customer controls in the home, installation or repair of home antenna systems, cable converters or cable company-supplied equipment; it also does not cover damage due to misuse, abuse, negligence, acts of God or other causes beyond the control of Zenith. Any alteration of the product after manufacture voids this warranty in its entirety.
THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ZENITH SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST REVENUES OR PROFITS IN CONNECTION WITH THIS PRODUCT.

OWNER'S RESPONSIBILITY

Effective Warranty Date Warranty begins on the date of original consumer purchase. For your convenience, keep the dealer's dated bill of sale or delivery ticket as evidence of the purchase date.

Operating Guide Read your Operating Guide carefully so that you will understand the operation of your set and how to adjust the customer controls.

Carry-In Service Models under 21" diagonal (U.S.A.) screen size must be taken to a Zenith authorized service center for warranty service and must be picked up by the owner.

Antenna Reception problems caused by inadequate home antenna or faulty antenna connections are the owner's responsibility.

Important Product Registration—Please fill out and mail your Product Registration Card. It is imperative that Zenith know how to reach you promptly if we should discover a safety problem that could affect you.

Warranty Service For warranty service information, contact any Zenith authorized service center. Parts and service labor that are Zenith's responsibility (see above) will be provided without charge. Other service is at the owner's expense. If you have any problem in obtaining satisfactory warranty service, call or write the Zenith Response Center. You must provide the model number, serial number and date of purchase or date of original installation. Before you ask for warranty service, read "Maintenance And Troubleshooting" in your operating guide. You might avoid a service call.

ZENITH CONSUMER SERVICES
Factory Owned Service Center
Home & Carry-in Service
Television/VCR
Parts and Accessories
PTV/Computer
Service Contracts Hours:
M-F 8-6, Sat 9-2
801 E. Roosevelt Rd.
Lombard, IL 60148
Telephone (605) 705-2830

ZENITH ELECTRONICS CORPORATION
Zenith Response Center
1000 Milwaukee Avenue
Glenview, IL 60025-2493
Telephone (847)391-8752
Mon-Fri, 7:00 a.m.- 8:00 p.m. CST
Sat 8:00 a.m. - 5:00 p.m. CST
www.zenith.com

IN CANADA, WRITE OR CALL US AT:
LG Electronics
235 Superior Blvd.
Mississauga, Ontario, Canada LST-2L6
tel: (905)795-6240,
fax:(905) 670-2379

IN MEXICO, WRITE OR CALL US
LG Electronics
Av. San Andres Atoto, No 8
Col. San Andres Atoto, Naucalpan
Estado de Mexico,
C.P. 53500
tel; 01 (800) 50 481
y en el D.F. 359 43 55
fax 01 (800) 50 733
y en el D.F. 357 17 56

Additional Zenith Picture Tube Protection Plan Available

Zenith offers you the opportunity to obtain additional long-term protection against failure of the picture tube in your new television. Our Picture Tube Protection Plan enables you to avoid any unexpected picture tube repair expenses and keep your television in top condition. It guarantees you a genuine Zenith replacement picture tube and service from a Zenith authorized service center.

Be sure to send in the Product Registration Card. We will send you an application for the Protection Plan near the expiration of the two-year manufacturer's warranty on the picture tube. For additional information call (847) 391-8757.

Recommended Audio/Video Accessories

STEREO SURROUND SOUND SPEAKERS

For use with any Surround Sound compatible TV. These speakers create a sound so real, it's as if you were part of the action. The convenient, space-saving shelf design make these speakers an ideal addition to any Home Theater System. The contemporary black finish complements any room.

CV5000 ONLY $224.95 PLUS $17.95 SHIPPING & HANDLING

REPLACEMENT REMOTE

Broken or lost remote? Perhaps you would just like the convenience of having a second remote on hand. Order your replacement remote control direct from Zenith! To ensure that you receive the correct remote, have your television's model number ready when you call.

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